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PRESENT LAND USE

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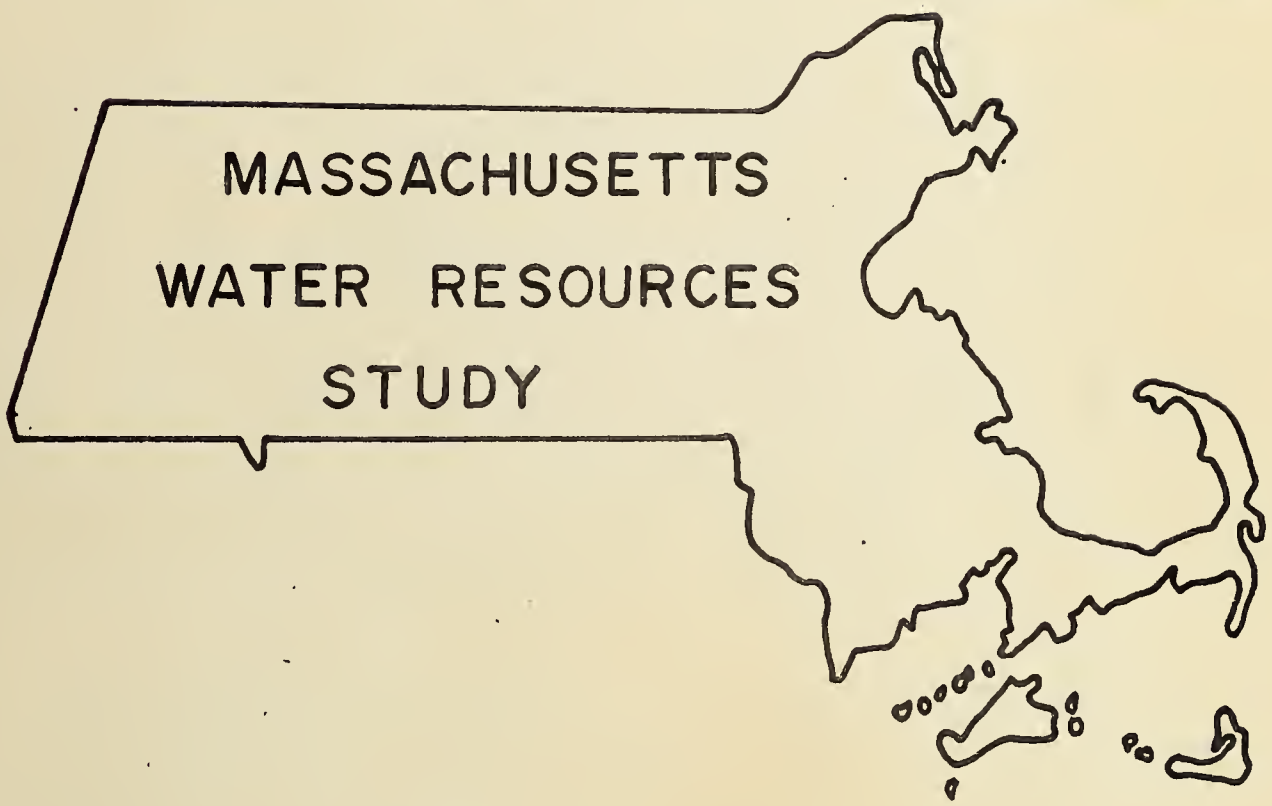

U.S. DEPARTMENT OF AGRICULTURE

Soil Conservation Service

Economic Research Service

Forest Service

In cooperation with the

MASSACHUSETTS WATER RESOURCES COMMISSION

MAY 1971

MASSACHUSETTS WATER RESOURCES STUDY

PRESENT LAND USE (As of 1968)

PREFACE

The United States Department of Agriculture, in cooperation with the Massachusetts Water Resources Commission, is participating in the five-year Massachusetts Water Resources Study of the water and related land resources of the Commonwealth. One phase of this study is the preparation of present Land Use tables.

This report, prepared by the Soil Conservation Service, and submitted to the USDA Field Advisory Committee, presents Present Land Use Acreage Tables (base year 1968) by Towns and Counties; and by the twenty-eight Study Areas of the Commonwealth of Massachusetts. Four major classes of land use and five subclasses of land use are listed for each town within the Commonwealth. This inventory, by class and subclass, will be used in other phases of the Massachusetts Water Resources Study. Projections of future land uses, to be made by the Economic Research Service, will show the expected future change based on historical trends for each class and subclass of land. The Massachusetts Water Resources Commission can use this report, together with other reports and studies prepared by the U. S. Department of Agriculture and other agencies, in the preparation of a comprehensive plan for the Commonwealth's water and land resources.

The information and data contained herein will assist local, state and federal agencies in their specific planning activities. The report will facilitate the coordination, conservation, utilization and management of the water and land resources to meet the rapidly expanding needs -- both now and in the foreseeable future.

TABLE OF CONTENTS

Preface	i
Table of Contents	ii-iii
Definition of Land Use Classes and Sub-Classes	1
Procedures Used	2
Present Land Use - By Counties	3
Summary by Counties	4
Tables - Land Use by Counties	5-28
Barnstable	5
Berkshire	6-7
Bristol	8
Dukes	9
Essex	10-11
Franklin	12-13
Hampden	14-15
Hampshire	16
Middlesex	17-19
Nantucket	20
Norfolk	21-22
Plymouth	23-24
Suffolk	25
Worcester	26-28
Present Land Use - By Study Areas	29
Towns Selected to Represent Each Study Area	30-32
Tables - Land Use by Study Areas	33-62
Assabet	33
Blackstone	34
Buzzards Bay	35
Cape Cod	36
Charles	37-38
Chicopee	39
Concord	40

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TABLE OF CONTENTS

Connecticut Valley - Northern	41
Connecticut Valley - Central	42
Connecticut Valley - Southern	43
Deerfield	44
Farmington	45
Housatonic	46
Hudson	47
Ipswich	48
Islands	49
Merrimack	50
Millers	51
Narragansett Bay	52
Nashua	53
Neponset	54
North Shore	55-56
Parker	57
South Shore	58
Sudbury	59
Taunton	60
Thames	61
Westfield	62

Appendix A - Specific Methodology Used for Each County 1-10

Barnstable	1	Hampshire	6
Berkshire	1	Nantucket	7
Bristol	2	Middlesex	7
Dukes	3	Norfolk	8
Essex	4	Plymouth	8
Franklin	4	Suffolk	9
Hampden	5	Worcester	10

Figure - Location of Study Areas

DEFINITION OF LAND USE CLASSES AND SUB-CLASSES

AGRICULTURE

Cropland — Land that is being intensively cultivated for such crops as field crops, orchard, truck, nursery and rotation hay.

Pasture — Land in grass or other long-term forage growth that is being used primarily for grazing.

URBAN

Residential — Land used for urban residential developments, multi-family apartments, and single rural residences (not to exceed ½ acre per dwelling), including driveways, lawns and parking areas.

Commercial-Industrial -- Land used for buildings, parking lots, and lawns associated with commercial and industrial enterprises. Can be in either a rural or urban setting.

Public-Institutional -- Land used for: transportation (roads, railroads, and airports); schools, churches, cemeteries, hospitals, government and other public buildings; and other land that is intensively used. Does not include areas of state, municipal, or private parks that are not developed for intensive use.

FOREST

Tree covered land not intensively developed, which is at least 10% stocked with forest trees capable of producing wood products, exerting an influence

on the water regime, and providing recreation opportunities or fish and wildlife habitat.

OTHER

All land not otherwise classified. Consists of miscellaneous land uses including: wetlands not included in forest; extensively used open land such as golf courses; non-forested parks lands; abandoned agricultural land; open land being held for development; etc.

WATER

Open water, including rivers, streams, lakes and reservoirs.

PROCEDURES USED

General

Land use determinations were made utilizing various sources of data including the U.S. Census of Agriculture, Conservation Needs Inventory (CNI), Regional Planning Commission Reports, the University of Massachusetts Classification of Land Cover Types, etc. Adjustments were made in the data used, where necessary, to update all figures to the base year of 1968. In addition, most land use data had to be reclassified to fit the categories used in this study. Reclassification was accomplished by analyzing available data and making necessary adjustments in the classifications.

Time limitations for this study prohibited gathering primary data; therefore, secondary sources were used. The normal discrepancies were noted in the secondary source data and adjustments were made as necessary.

Limitations of accuracy of acreages shown are indicated by appropriate rounding of figures in the table.

Data presented herein is not to be regarded as precise or exact, but only as a general relationship of land use within towns.

The total area of land and water within each town was taken from the U.S. Department of Commerce's Area Measurement Report, April 1967. Land use data was balanced to agree with these published town areas.

The Regional Planning Commissions, Conservation Districts, local Soil Conservation Service personnel, and others were consulted in making appropriate adjustments of existing data.

Four classes of land use with 5 sub-classes, and water are listed in a table, by towns, for each county and each study area.

Specific

Because of the wide variation in available data, certain adjustments, and reclassifications had to made, generally on a county by county basis.

Listed in Appendix A, by counties, is the specific methodology used to develop the present land use for each county.

PRESENT LAND USE - BY COUNTIES

The following tables list the Present Land Use (As of 1968) for each county - by towns - for the selected classes and sub-classes.

PRESENT LAND USE ACREAGES (As of 1968)

SUMMARY BY COUNTIES

TOWN	AGRICULTURE		URBAN			FOREST	OTHER	WATER	TOTAL AREA	
	Cropld.	Past.	Resident.	Com-Ind	Pub-Inst				Acres	Sq.Mi.
Barnstable	5,900	690	18,650	4,530	20,590	153,650	47,230	36,570	287,810	449.7
Berkshire	32,000	19,000	19,330	3,230	9,800	458,800	59,330	8,750	610,240	953.5
Bristol	22,020	18,090	26,040	12,690	16,920	220,050	38,460	24,550	378,820	591.9
Dukes	90	1,030	3,100	100	1,160	41,900	19,050	13,500	79,940	124.9
Essex	17,000	4,600	45,800	9,950	41,760	161,700	35,340	26,250	342,400	535.0
Franklin	31,100	9,400	8,890	2,190	9,170	358,550	33,440	15,040	467,780	730.9
Hampden	18,800	6,300	37,800	7,500	26,400	261,200	36,940	11,340	406,270	634.8
Hampshire	43,000	9,500	15,770	2,160	8,910	223,500	33,950	11,950	348,740	544.9
Nantucket	500	370	2,550	200	800	3,770	22,810	5,480	36,480	57.0
Middlesex	24,820	6,240	86,010	18,080	68,660	247,370	76,380	15,730	543,300	848.9
Norfolk	10,090	2,510	46,120	10,380	38,510	126,080	17,760	16,070	267,520	418.0
Plymouth	26,530	8,300	35,840	10,760	25,840	275,600	35,880	35,650	454,400	710.0
Suffolk	*	*	11,530	4,280	17,200	*	2,640	13,630	49,280	77.0
Worcester	52,140	18,790	43,500	10,990	47,480	669,910	125,440	41,860	1,010,110	1578.3
TOTAL	273,990	104,820	400,930	97,040	333,200	3,202,080	584,650	276,370	5 283,090	8254.8
PERCENT	5.2	2.0	7.6	1.8	6.3	60.6	11.1	5.4	100.0	

Note: Totals may not add due to rounding *Less than 10 acres April 1971

PRESENT LAND USE ACREAGES (As of 1968)

Barnstable County

TOWN	AGRICULTURE		URBAN			FOREST	OTHER	WATER	TOTAL AREA	
	Cropld.	Pasture	Resident.	Com-Ind	Pub-Inst				Acres	Sq.Mi.
Barnstable	740	70	2,250	600	2,220	16,100	15,820	1,880	39,680	62.0
Bourne	280	80	950	950	1,210	19,800	2,590	4,030	29,890	46.7
Brewster	410	30	680	70	1,070	12,000	400	1,470	16,130	25.2
Chatham	170	30	1,750	330	340	3,980	4,020	4,860	15,490	24.2
Dennis	240	10	1,550	660	810	7,830	1,890	1,020	14,020	21.9
Eastham	400	*	280	40	310	4,830	2,970	1,220	10,050	15.7
Falmouth	1,310	50	3,600	400	950	18,190	3,650	3,900	32,060	50.1
Harwich	690	140	1,770	360	2,000	8,580	160	900	14,590	22.8
Mashpee	340	90	650	70	1,730	10,100	1,860	2,500	17,340	27.1
Orleans	210	20	1,590	150	230	5,450	1,180	4,610	13,440	21.0
Provincetown	*	*	180	90	190	2,090	3,590	1,220	7,360	11.5
Sandwich	630	90	450	280	6,980	18,500	390	830	28,160	44.0
Truro	110	*	210	150	250	9,270	3,450	510	13,950	21.8
Wellfleet	50	10	870	170	700	8,200	2,540	1,660	14,210	22.2
Yarmouth	310	60	1,870	210	1,600	8,730	2,710	5,950	21,440	33.5
TOTAL	5,900	690	18,650	4,530	20,590	153,650	47,230	36,570	287,810	449.7
PERCENT	2.0	0.2	6.5	1.6	7.2	53.4	16.4	12.7	100.0	

Note: Totals may not add due to rounding *Less than 10 acres April 1971

PRESENT LAND USE ACREAGES (As of 1968)

Berkshire County (1 of 2)

TOWN	AGRICULTURE		URBAN			FOREST	OTHER	WATER	TOTAL AREA	
	Cropld.	Past.	Resident.	Com-Ind	Pub-Inst				Acres	Sq. Mi.
Adams	1,100	660	2,230	730	250	8,640	1,080	30	14,720	23.0
Alford	700	420	70	*	50	4,970	1,210	*	7,420	11.6
Becket	130	80	300	30	300	28,600	830	580	30,850	48.2
Cheshire	1,520	900	360	60	200	10,350	3,890	450	17,730	27.7
Clarksburg	170	100	140	20	150	6,850	760	60	8,260	12.9
Dalton	700	410	870	130	300	11,140	560	30	14,140	22.1
Egremont	2,070	1,230	200	40	150	7,070	1,270	130	12,160	19.0
Florida	500	300	80	40	250	14,050	620	30	15,870	24.8
Great Barrington	3,340	1,980	1,100	160	500	20,230	1,940	320	29,570	46.2
Hancock	800	480	380	30	100	18,700	2,460	30	22,980	35.9
Hinsdale	170	100	210	30	100	9,830	2,940	640	14,020	21.9
Lanesborough	1,140	680	400	130	250	12,470	3,620	510	19,200	30.0
Lee	980	580	630	220	400	11,400	2,750	510	17,470	27.3
Lenox	770	460	520	140	800	9,240	1,960	130	14,020	21.9
Monterey	250	140	50	10	150	15,880	660	580	17,730	27.7
Mount Washington	160	100	20	*	100	13,900	60	60	14,400	22.5
New Ashford	70	40	90	10	50	7,890	470	20	8,640	13.5
New Marlborough	910	540	210	20	250	23,630	5,030	320	30,910	48.3

PRESENT LAND USE ACREAGES (As of 1968)

Berkshire County (2 of 2)

TOWN	AGRICULTURE		URBAN			FOREST	OTHER	WATER	TOTAL AREA	
	Cropld.	Past.	Resident.	Com-Ind	Pub-Inst				Acres	Sq. Mi.
North Adams	810	480	2,030	300	450	8,730	270	50	13,120	20.5
Otis	50	30	320	60	250	21,780	680	1,410	24,580	38.4
Peru	80	50	120	*	100	16,050	370	60	16,830	26.3
Pittsfield	2,370	1,400	5,620	660	1,500	10,650	3,660	1,090	26,940	42.1
Richmond	1,550	920	570	30	250	6,960	1,820	190	12,290	19.2
Sandisfield	90	50	110	10	250	31,220	2,250	260	34,240	53.5
Savoy	670	400	160	*	200	20,770	970	60	23,230	36.3
Sheffield	5,240	3,110	170	80	350	18,640	3,640	130	31,360	49.0
Stockbridge	480	290	780	70	300	9,670	3,130	510	15,230	23.8
Tyringham	380	230	100	*	50	9,800	1,540	130	12,220	19.1
Washington	140	80	120	*	100	23,160	1,170	260	25,020	39.1
West Stockbridge	1,190	700	360	100	200	7,720	1,700	60	12,030	18.8
Williamstown	2,690	1,600	890	120	1,250	19,950	3,730	40	30,270	47.3
Windsor	780	460	110	*	200	18,860	2,300	60	22,780	35.6
TOTAL	32,000	19,000	19,330	3,230	9,800	458,800	59,330	8,750	610,240	953.5
PERCENT	5.2	3.1	3.2	0.6	1.6	75.2	9.7	1.4	100.0	

Note: Totals may not add due to rounding *Less than 10 acres April 1971

PRESENT LAND USE ACREAGES (as of 1968)
Bristol County

TOWN	AGRICULTURE		URBAN			FOREST	OTHER	WATER	TOTAL AREA	
	Cropld.	Pasture	Resident.	Com-Ind	Pub-Inst				Acres	Sq. Mi.
Acushnet	1,300	1,000	630	320	210	6,000	2,320	380	12,160	19.0
Attleboro	500	400	1,950	960	1,310	9,300	2,860	190	17,470	27.3
Berkley	1,100	600	270	260	250	7,500	640	510	11,140	17.4
Dartmouth	3,000	2,900	2,900	950	1,440	26,000	1,850	3,070	42,110	65.8
Dighton	1,000	900	450	440	400	9,550	1,470	260	14,460	22.6
Easton	1,000	500	1,300	420	1,210	12,000	2,000	260	18,690	29.2
Fairhaven	900	500	1,230	220	570	3,630	690	1,860	9,600	15.0
Fall River	500	100	2,700	1,500	1,300	14,000	1,020	4,220	25,340	39.6
Freetown	950	500	510	550	320	17,660	1,530	1,220	23,230	36.3
Mansfield	300	580	730	270	370	9,450	1,250	170	13,120	20.5
New Bedford	*	*	2,530	1,890	1,610	3,000	3,450	1,340	13,820	21.6
No.Attleborough	680	590	1,400	500	570	6,780	1,580	320	12,420	19.4
Norton	520	610	650	360	410	13,400	2,030	770	18,750	29.3
Raynham	800	700	710	340	560	8,530	1,420	180	13,250	20.7
Rehoboth	2,500	2,000	660	420	1,070	20,190	3,430	190	30,460	47.6
Seekonk	920	870	950	650	840	5,580	2,090	60	11,970	18.7
Somerset	200	400	1,050	380	450	1,300	1,340	2,500	7,620	11.9
Swansea	1,600	700	1,250	630	800	7,370	2,180	1,660	16,190	25.3
Taunton	1,550	1,240	2,500	1,100	2,100	17,960	3,630	640	30,720	48.0
Westport	2,700	3,000	1,670	530	1,130	20,850	1,670	4,740	36,290	56.7
TOTAL	22,020	18,090	26,040	12,690	16,920	220,050	38,460	24,550	378,820	591.9
PERCENT	5.8	4.8	6.9	3.3	4.4	58.1	10.1	6.4	100.0	

Note: Totals may not add due to rounding *Less than 10 acres April 1971

PRESENT LAND USE ACREAGES (As of 1968)

Dukes County

TOWN	AGRICULTURE		URBAN			FOREST	OTHER	WATER	TOTAL AREA	
	Cropld.	Past.	Resident.	Com-Ind	Pub-Inst				Acres	Sq.Mi.
Chilmark	*	200	350	*	130	8,800	2,620	1,540	13,630	21.3
Edgartown	*	120	700	30	240	11,900	4,040	5,820	22,850	35.7
Gay Head	*	*	100	*	50	1,500	1,870	640	4,160	6.5
Gosnold	*	400	80	*	10	2,300	5,660	2,180	10,620	16.6
Oak Bluffs	*	*	950	10	340	2,500	930	1,090	5,820	9.1
Tisbury	20	80	700	50	90	2,900	380	1,150	5,380	8.4
West Tisbury	70	230	220	10	300	12,000	3,550	1,090	17,470	27.3
TOTAL	90	1,030	3,100	100	1,160	41,900	19,050	13,500	79,940	124.9
PERCENT	0.1	1.3	3.9	0.1	1.5	52.4	23.8	16.9	100.0	

Note: Totals may not add due to rounding *Less than 10 acres April 1971

PRESENT LAND USE ACREAGES (As of 1968)

Essex County (1 of 2)

TOWN	AGRICULTURE		URBAN			FOREST	OTHER	WATER	TOTAL AREA	
	Cropld.	Past.	Resident	Com-Ind	Pub-Inst				Acres	Sq. Mi.
Amesbury	1,000	250	1,200	250	800	3,900	150	1,220	8,770	13.7
Andover	600	200	2,300	700	2,500	12,100	1,500	900	20,800	32.5
Beverly	300	200	2,800	350	1,600	4,000	290	770	10,300	16.1
Boxford	600	200	1,000	150	800	12,400	210	380	15,740	24.6
Danvers	1,000	300	1,900	300	1,600	3,000	220	640	8,960	14.0
Essex	800	200	600	90	800	5,400	1,070	1,340	10,300	16.1
Georgetown	500	150	800	200	1,100	5,500	*	190	8,450	13.2
Gloucester	200	50	2,500	500	1,500	11,000	60	3,780	19,580	30.6
Groveland	300	50	800	350	500	3,500	360	260	6,020	9.4
Hamilton	900	300	1,100	70	1,500	5,000	470	260	9,600	15.0
Haverhill	1,400	310	3,000	1,000	2,700	10,100	2,170	1,540	22,210	34.7
Ipswich	1,600	500	1,500	300	4,000	10,000	350	3,070	24,320	38.0
Lawrence	100	50	1,700	700	1,500	200	100	380	4,740	7.4
Lynn	*	*	2,500	700	1,000	2,300	220	900	7,620	11.0
Lynnfield	100	50	1,500	200	1,000	3,000	610	260	6,720	10.5
Manchester	100	50	1,000	50	700	3,000	30	450	5,380	8.4
Marblehead	*	*	1,600	100	700	100	190	960	3,650	5.7
Merrimac	300	50	600	100	300	3,000	1,150	190	5,700	8.9

PRESENT LAND USE ACREAGES (As of 1968)

Essex County (2 of 2)

TOWN	AGRICULTURE		URBAN			FOREST	OTHER	WATER	TOTAL	
	Cropld.	Past.	Resident.	Com-Ind	Pub-Inst				Acres	Sq.Mi.
Methuen	1,100	250	2,500	550	1,700	6,000	2,170	380	14,660	22.9
Middleton	200	50	900	400	700	6,000	900	130	9,280	14.5
Nahant	*	*	400	*	260	*	40	130	830	1.3
Newbury	1,300	400	900	150	3,200	6,000	3,730	770	16,450	25.7
Newburyport	1,000	200	1,000	160	800	1,300	920	1,660	7,040	11.0
North Andover	900	200	1,200	400	1,500	11,500	1,320	770	17,790	27.8
Peabody	300	50	2,800	650	2,000	4,600	160	60	10,620	16.6
Rockport	100	50	900	80	400	2,700	120	380	4,740	7.4
Rowley	600	100	600	150	600	6,200	3,590	960	12,800	20.0
Salem	*	*	1,200	400	1,600	1,200	780	1,090	6,270	9.8
Salisbury	400	50	700	200	500	4,300	3,710	900	10,750	16.8
Saugus	*	*	1,400	400	1,500	2,500	1,180	510	7,490	11.7
Swampscott	*	*	800	120	500	200	290	*	1,920	3.0
Topsfield	500	200	1,000	150	1,000	4,800	480	60	8,190	12.8
Wenham	200	50	700	80	400	2,900	600	320	5,250	8.2
West Newbury	600	100	400	50	500	4,000	3,180	640	9,470	14.8
TOTAL	17,000	4,600	45,800	9,950	41,760	161,700	35,340	26,250	342,400	535.0
PERCENT	5.0	1.3	13.4	2.9	12.2	47.2	10.3	7.7	100.0	

Note: Totals may not add due to rounding *Less than 10 acres April 1971

PRESENT LAND USE ACREAGES (As of 1968)

Franklin County (1 of 2)

TOWN	AGRICULTURE		URBAN			FOREST	OTHER	WATER	TOTAL	
	Cropld.	Past.	Resident.	Com-Ind	Pub-Inst				Acres	Sq.Mi.
Ashfield	1,770	530	380	40	220	20,690	2,420	450	26,500	41.4
Bernardston	850	100	350	70	130	11,880	1,420	50	14,850	23.2
Buckland	200	70	350	50	270	10,000	850	110	11,900	18.6
Charlemont	400	120	270	260	270	14,260	1,070	250	16,900	26.4
Colrain	380	110	300	50	260	22,940	3,930	130	28,100	43.9
Conway	720	220	140	10	220	20,430	2,730	40	24,510	38.3
Deerfield	5,000	1,500	490	60	460	13,000	670	380	21,570	33.7
Erving	350	40	240	200	160	7,060	1,170	60	9,280	14.5
Gill	1,730	520	310	70	550	5,630	150	580	9,540	14.9
Greenfield	980	300	1,540	580	1,300	7,140	2,110	130	14,080	22.0
Hawley	960	290	120	10	120	17,940	520	*	19,970	31.2
Heath	370	50	170	20	170	13,700	1,580	*	16,060	25.1
Leverett	350	100	290	40	210	12,820	970	130	14,910	23.3
Leyden	810	240	100	20	90	8,520	1,810	60	11,650	18.2
Monroe	100	30	40	10	70	6,000	660	60	6,980	10.9

PRESENT LAND USE ACREAGES (As of 1968)

Franklin County (2 of 2)

TOWN	AGRICULTURE		URBAN			FOREST	OTHER	WATER	TOTAL AREA	
	Cropld.	Past.	Resident.	Com-Ind	Pub-Inst				Acres	Sq.Mi.
Montague	1,370	410	820	120	770	15,800	230	830	20,350	31.8
New Salem	210	70	190	20	70	27,500	550	9,410	38,020	59.4
Northfield	2,000	600	430	170	2,000	16,000	940	700	22,850	35.7
Orange	310	90	900	110	900	16,750	3,920	380	23,360	36.5
Rowe	120	60	140	60	120	14,310	610	130	15,550	24.3
Shelburne	1,960	580	320	80	200	10,390	1,530	110	15,170	23.7
Shutesbury	500	150	210	30	100	15,500	660	380	17,540	27.4
Sunderland	4,400	1,600	290	40	110	2,500	280	320	9,540	14.9
Warwick	630	190	110	10	140	22,490	750	130	24,450	38.2
Wendell	130	80	130	20	100	19,300	1,040	60	20,860	32.6
Whately	4,500	1,350	260	40	160	6,000	870	130	13,310	20.8
TOTAL	31,100	9,400	8,890	2,190	9,170	358,550	33,440	15,040	467,780	730.9
PERCENT	6.6	2.0	1.9	0.5	2.0	76.6	7.2	3.2	100.0	

Note: Totals may not add due to rounding *Less than 10 acres April 1971

PRESENT LAND USE ACREAGES (As of 1968)

Hampden County (1 of 2)

TOWN	AGRICULTURE		URBAN			FOREST	OTHER	WATER	TOTAL AREA	
	Cropld.	Past.	Resident.	Com-Ind	Pub-Inst				Acres	Sq.Mi.
Agawam	3,190	1,070	2,740	330	1,220	5,340	1,270	450	15,620	24.4
Blandford	490	180	270	90	730	29,280	1,600	1,660	34,300	53.6
Brimfield	410	140	400	30	200	16,430	4,770	340	22,720	35.5
Chester	600	200	370	90	300	20,100	1,600	670	23,940	37.4
Chicopee	170	60	3,940	760	5,390	1,000	3,110	680	15,100	23.6
East Longmeadow	780	260	2,050	220	580	3,000	1,380	50	8,320	13.0
Granville	1,090	370	300	40	260	23,170	1,930	680	27,840	43.5
Hampden	980	330	1,490	130	570	8,750	260	100	12,610	19.7
Holland	20	*	390	20	70	6,910	640	400	8,450	13.2
Holyoke	450	150	2,000	460	1,420	6,430	2,380	1,110	14,400	22.5
Longmeadow	150	30	2,440	40	590	2,400	110	390	6,140	9.6
Ludlow	860	300	2,440	300	3,010	9,900	590	710	18,110	28.3

PRESENT LAND USE ACREAGES (As of 1968)

Hampden County (2 of 2)

TOWN	AGRICULTURE		URBAN			FOREST	OTHER	WATER	TOTAL AREA	
	Cropld.	Past.	Resident.	Com-Ind	Pub-Inst				Acres	Sq.Mi.
Monson	690	230	560	230	1,110	21,820	4,020	70	28,740	44.9
Montgomery	550	180	260	10	190	8,350	10	110	9,660	15.1
Palmer	280	90	920	260	330	14,200	4,110	350	20,540	32.1
Russell	60	20	220	70	270	9,780	830	270	11,520	18.0
Southwick	3,460	1,170	1,250	210	500	11,610	1,450	640	20,290	31.7
Springfield	10	*	7,050	2,160	4,300	6,000	850	560	20,930	32.7
Tolland	200	70	220	20	120	18,770	1,050	670	21,120	33.0
Wales	40	20	190	10	100	8,060	1,750	130	10,304	16.1
Westfield	3,200	1,060	3,120	1,050	2,920	16,980	1,210	540	30,080	47.0
West Springfield	420	140	2,450	630	1,400	4,350	1,320	490	11,200	17.5
Wilbraham	700	230	2,730	340	820	8,570	690	250	14,340	22.4
TOTAL	18,800	6,300	37,800	7,500	26,400	261,200	36,940	11,340	406,270	634.8
PERCENT	4.6	1.5	9.4	1.8	6.5	64.5	9.0	2.7	100.0	

Note: Totals may not add due to rounding

* Less than 10 acres

PRESENT LAND USE ACREAGES (As of 1968)

Hampshire County

TOWN	AGRICULTURE		URBAN			FOREST	OTHER	WATER	TOTAL AREA	
	Cropld.	Past.	Resident.	Com-Ind	Pub-Inst				Acres	Sq.Mi.
Amherst	5,150	840	2,090	210	970	7,310	960	140	17,660	27.6
Belchertown	2,010	1,500	1,110	230	1,660	20,080	7,020	1,780	35,390	55.3
Chesterfield	740	530	330	20	130	16,090	2,150	100	20,100	31.4
Cummington	870	550	390	10	270	10,930	1,760	*	14,780	23.1
Easthampton	2,120	150	1,220	140	430	3,840	620	180	8,700	13.6
Goshen	290	280	340	10	100	9,190	1,000	190	11,390	17.8
Granby	3,440	660	1,140	250	490	10,370	1,420	220	17,980	28.1
Hadley	9,380	100	880	120	340	3,980	70	940	15,810	24.7
Hatfield	4,460	100	480	60	170	4,360	530	470	10,620	16.6
Huntington	160	200	500	70	240	13,410	1,480	1,220	17,280	27.0
Middlefield	160	470	120	10	150	12,870	1,570	70	15,420	24.1
Northampton	4,830	380	2,060	500	1,490	11,780	790	830	22,660	35.4
Pelham	210	200	230	30	380	13,390	1,340	1,110	16,900	26.4
Plainfield	930	250	250	10	110	10,370	1,550	100	13,570	21.2
Southampton	2,980	360	820	70	380	12,560	720	670	18,560	29.0
South Hadley	2,190	600	2,060	150	830	5,260	200	490	11,780	18.4
Ware	760	1,050	660	100	300	15,040	4,430	3,200	25,540	39.9
Westhampton	410	380	340	130	150	14,510	1,520	160	17,600	27.5
Williamsburg	830	400	410	30	150	12,650	1,920	60	16,450	25.7
Worthington	1,080	500	340	10	170	15,510	2,920	10	20,540	32.1
TOTAL	43,000	9,500	15,770	2,160	8,910	223,500	33,950	11,950	348,740	544.9
PERCENT	12.3	2.7	4.5	0.6	2.6	64.1	9.8	3.4	100.0	

Note: Totals may not add due to rounding

*Less than 10 acres

PRESENT LAND USE ACREAGES (As of 1968)

Middlesex County (1 of 3)

TOWN	AGRICULTURE		URBAN			FOREST	OTHER	WATER	TOTAL AREA	
	Cropld.	Past.	Resident.	Com-Ind	Pub-Inst				Acres	Sq.Mi.
Acton	680	170	1,330	440	730	7,300	2,280	130	13,060	20.4
Arlington	*	*	2,000	130	740	100	230	190	3,390	5.3
Ashby	600	150	200	100	200	11,160	2,890	260	15,550	24.3
Ashland	290	70	790	280	960	4,430	800	700	8,320	13.0
Ayer	320	80	400	330	470	2,670	1,490	320	6,080	9.5
Bedford	350	90	1,250	180	1,900	3,900	1,230	70	8,960	14.0
Belmont	*	*	1,500	70	1,090	250	60	30	3,010	4.7
Billerica	470	120	2,450	460	1,710	9,170	2,520	130	17,020	26.6
Boxborough	230	60	200	200	200	3,400	2,470	20	6,780	10.6
Burlington	360	90	2,000	780	800	3,550	20	10	7,620	11.9
Cambridge	*	*	1,300	700	1,800	10	160	580	4,540	7.1
Carlisle	380	100	500	10	340	5,620	2,960	80	9,980	15.6
Chelmsford	580	150	3,150	590	1,560	5,960	2,600	320	14,910	23.3
Concord	1,980	490	2,000	240	3,310	5,980	2,260	320	16,580	25.9
Dracut	560	140	1,600	460	1,320	7,070	2,350	320	13,820	21.6
Dunstable	470	120	200	100	200	7,040	2,620	60	10,820	16.9
Everett	*	*	800	120	800	*	390	190	2,300	3.6
Framingham	700	180	4,000	750	3,000	5,700	1,480	1,090	16,900	26.4
Groton	1,780	440	850	300	1,560	13,670	2,460	640	21,700	33.9

PRESENT LAND USE ACREAGES (As of 1968)

Middlesex County (2 of 3)

TOWN	AGRICULTURE		URBAN			FOREST	OTHER	WATER	TOTAL AREA	
	Cropld.	Past.	Resident.	Com-Ind	Pub-Inst				Acres	Sq.Mi.
Holliston	550	140	1,100	300	600	6,580	2,830	130	12,220	19.1
Hopkinton	430	110	750	280	2,300	10,780	2,180	1,150	17,980	28.1
Hudson	470	120	1,050	320	600	3,340	1,590	130	7,620	11.9
Lexington	550	140	3,700	400	2,000	3,000	640	130	10,560	16.5
Lincoln	580	140	1,500	100	500	4,600	1,860	380	9,660	15.1
Littleton	800	200	800	400	800	4,640	2,920	640	11,200	17.5
Lowell	360	90	3,100	900	3,500	500	250	510	9,220	14.4
Malden	*	*	1,450	320	1,050	100	320	20	3,260	5.1
Marlborough	600	150	1,750	600	1,100	6,160	2,760	830	13,950	21.8
Maynard	150	40	700	120	500	1,300	520	60	3,390	5.3
Medford	*	*	2,000	400	2,500	200	20	320	5,440	8.5
Melrose	*	*	1,500	150	1,000	100	220	40	3,010	4.7
Natick	290	70	3,000	500	1,500	3,370	740	640	10,110	15.8
Newton	200	50	5,700	600	4,100	500	310	60	11,520	18.0
North Reading	200	50	1,200	350	1,000	4,750	960	190	8,700	13.6
Pepperell	1,500	380	600	100	520	8,640	2,980	320	15,040	23.5
Reading	180	50	1,790	350	1,000	2,420	540	*	6,340	9.9
Sherborn	450	110	800	300	500	5,890	2,250	130	10,430	16.3
Shirley	550	140	500	300	500	6,070	2,110	70	10,240	16.0

PRESENT LAND USE ACREAGES (As of 1968)

Middlesex County (3 of 3)

TOWN	AGRICULTURE		URBAN			FOREST	OTHER	WATER	TOTAL AREA	
	Cropld.	Past.	Resident	Com-Ind	Pub-Inst.				Acres	Sq.Mi.
Somerville	*	*	1,100	400	600	*	520	60	2,670	4.2
Stoneham	160	40	1,300	100	1,000	1,200	40	380	4,220	6.6
Stow	670	170	1,000	100	2,500	5,800	1,220	190	11,650	18.2
Sudbury	1,500	380	2,000	200	1,500	8,110	2,120	130	15,940	24.9
Tewksbury	1,070	270	1,800	700	1,500	6,060	1,980	260	13,630	21.3
Townsend	800	200	300	100	300	16,480	2,960	110	21,250	33.2
Tyngsborough	280	60	700	150	1,000	6,140	2,490	770	11,580	18.1
Wakefield	*	*	1,800	300	1,000	1,330	310	320	5,060	7.9
Waltham	200	50	2,400	700	3,000	1,500	150	700	8,700	13.6
Watertown	*	*	1,100	300	1,100	*	60	70	2,620	4.1
Wayland	1,000	250	2,400	200	1,200	3,630	1,240	260	10,180	15.9
Westford	550	140	1,400	300	1,000	13,490	2,770	510	20,160	31.5
Weston	330	80	3,000	250	1,500	5,320	400	260	11,140	17.4
Wilmington	300	80	1,900	350	1,000	5,750	1,530	100	11,010	17.2
Winchester	*	*	1,900	100	1,000	400	440	190	4,030	6.3
Woburn	350	90	2,400	800	1,200	2,240	920	190	8,190	12.8
TOTAL	24,820	6,240	86,010	18,080	68,660	247,370	76,380	15,730	543,300	848.9
PERCENT	4.6	1.1	15.8	3.3	12.6	45.6	14.1	2.9	100.0	

Note: Totals may not add due to rounding *Less than 10 acres April 1971

PRESENT LAND USE ACREAGES (As of 1968)

Nantucket County

TOWN	AGRICULTURE		URBAN			FOREST	OTHER	WATER	TOTAL AREA	
	Cropld.	Past.	Resident.	Com-Ind	Pub-Inst				Acres	Sq.Mi.
Nantucket	500	370	2,550	200	800	3,770	22,810	5,480	36,480	57.0
TOTAL	500	370	2,550	200	800	3,770	22,810	5,480	36,480	57.0
PERCENT	1.4	1.0	7.0	0.6	2.2	10.3	62.5	15.0	100.0	

Note: Totals may not add due to rounding *Less than 10 acres April 1971

PRESENT LAND USE ACREAGES (As of 1968)

Norfolk County (1 of 2)

TOWN	AGRICULTURE		URBAN			FOREST	OTHER	WATER	TOTAL AREA	
	Cropld.	Past.	Resident.	Com-Ind	Pub-Inst				Acres	Sq.Mi.
Avon	70	10	500	130	470	1,450	60	190	2,880	4.5
Bellingham	700	200	1,000	400	750	6,920	1,550	450	11,970	18.7
Braintree	150	40	2,300	580	2,000	3,580	50	510	9,220	14.4
Brookline	*	*	2,170	180	1,500	*	470	30	4,350	6.8
Canton	300	100	2,000	700	2,550	6,000	190	510	12,350	19.3
Cohasset	100	10	1,580	120	2,200	2,000	200	450	6,660	10.4
Dedham	100	10	2,200	440	1,790	2,000	120	130	6,780	10.6
Dover	600	110	1,100	120	460	6,260	1,050	30	9,730	15.2
Foxborough	520	120	1,260	270	1,100	8,330	1,070	510	13,180	20.6
Franklin	1,000	390	1,280	380	820	11,470	1,560	130	17,020	26.6
Holbrook	90	10	950	300	360	2,680	20	60	4,670	7.3
Medfield	520	140	940	180	1,280	4,970	800	390	9,220	14.4
Medway	600	160	800	290	320	4,530	630	30	7,360	11.5
Millis	700	210	650	170	500	4,560	890	60	7,740	12.1
Milton	150	20	2,900	160	2,270	2,500	260	130	8,380	13.1

PRESENT LAND USE ACREAGES (As of 1968)

Norfolk County (2 of 2)

TOWN	AGRICULTURE		URBAN			FOREST	OTHER	WATER	TOTAL AREA	
	Cropld.	Past.	Resident.	Com-Ind	Pub-Inst				Acres	Sq.Mi.
Needham	200	50	2,770	450	1,450	2,850	60	230	8,060	12.6
Norfolk	600	110	630	170	680	5,850	1,500	130	9,660	15.1
Norwood	110	30	1,680	700	1,270	2,240	560	60	6,660	10.4
Plainville	480	70	580	280	540	4,120	910	320	7,300	11.4
Quincy	*	*	3,050	1,160	4,370	1,500	220	6,780	17,090	26.7
Randolph	100	10	1,720	250	1,650	2,500	40	320	6,590	10.3
Sharon	540	190	1,400	300	1,140	10,000	1,340	450	15,360	24.0
Stoughton	440	110	1,850	600	950	5,560	730	130	10,370	16.2
Walpole	800	120	1,700	650	1,150	7,000	1,570	320	13,310	20.8
Wellesley	100	10	2,970	180	1,970	1,000	170	260	6,660	10.4
Westwood	320	130	1,820	90	1,100	3,110	410	60	7,040	11.0
Weymouth	100	10	3,470	750	3,080	3,000	280	3,010	13,700	21.4
Wrentham	700	140	850	380	790	10,100	860	380	14,210	22.2
TOTAL	10,090	2,510	46,120	10,380	38,510	126,080	17,760	16,070	267,520	418.0
PERCENT	3.8	0.9	17.2	3.9	14.4	47.1	6.6	6.1	100.0	

Note: Totals may not add due to rounding *Less than 10 acres April 1971

PRESENT LAND USE ACREAGES (As of 1968)

Plymouth County (1 of 2)

TOWN	AGRICULTURE		URBAN			FOREST	OTHER	WATER	TOTAL AREA	
	Cropld.	Past.	Resident.	Com-Ind	Pub-Inst				Acres	Sq.Mi.
Abington	500	200	1,200	250	1,140	2,500	480	190	6,460	10.1
Bridgewater	2,200	500	1,300	400	1,950	10,000	1,190	580	18,110	28.3
Brockton	200	50	4,320	1,040	3,000	4,500	420	40	13,570	21.2
Carver	3,300	500	400	250	300	15,120	4,070	1,280	25,216	39.4
Duxbury	500	150	1,700	330	1,000	9,200	2,030	1,410	16,320	25.5
East Bridgewater	1,800	500	1,100	400	540	4,000	2,730	130	11,200	17.5
Halifax	700	300	550	60	300	7,400	870	900	11,070	17.3
Hanover	400	100	1,440	460	580	6,500	440	60	9,980	15.6
Hanson	500	200	1,050	220	510	6,300	880	380	10,050	15.7
Hingham	600	150	2,130	560	4,250	6,000	450	2,690	16,830	26.3
Hull	*	*	780	50	520	150	100	3,520	5,120	8.0
Kingston	390	100	670	380	400	8,060	1,840	900	12,740	19.9
Lakeville	1,300	550	740	160	550	14,370	1,150	4,100	22,910	35.8
Marion	240	200	780	130	510	6,510	400	2,430	11,200	17.5
Marshfield	700	300	2,150	350	1,000	10,000	3,740	450	18,690	29.2

PRESENT LAND USE ACREAGES (As of 1968)

Plymouth County (2 of 2)

TOWN	AGRICULTURE		URBAN			FOREST	OTHER	WATER	TOTAL AREA	
	Cropld.	Past.	Resident.	Com-Ind	Pub-Inst				Acres	Sq.Mi.
Mattapoiset	500	150	660	170	390	8,300	840	960	11,970	18.7
Middleborough	3,200	1,500	1,250	780	1,000	33,420	3,270	1,660	46,080	72.0
Norwell	400	100	1,300	310	1,100	9,400	770	130	13,500	21.1
Pembroke	400	200	1,500	320	700	10,200	500	1,220	15,040	23.5
Plymouth	2,000	500	2,730	1,750	2,120	49,200	3,200	5,380	66,880	104.5
Plympton	500	300	240	110	110	7,770	310	260	9,600	15.0
Rochester	2,000	500	390	390	200	16,180	1,590	1,600	22,850	35.7
Rockland	200	100	1,200	320	530	3,500	550	60	6,460	10.1
Scituate	400	100	2,650	200	1,260	5,800	410	1,340	12,160	19.0
Wareham	2,500	500	1,890	800	870	14,720	740	3,970	25,980	40.6
West Bridgewater	1,000	500	720	370	580	4,500	2,290	20	9,980	15.6
Whitman	100	50	1,000	200	430	2,000	630	*	4,420	6.9
TOTAL	26,530	8,300	35,840	10,760	25,840	275,600	35,880	35,650	454,400	710.0
PERCENT	5.8	1.8	7.9	2.4	5.7	60.6	7.9	7.9	100.0	

Note: Totals may not add due to rounding *Less than 10 acres April 1971

PRESENT LAND USE ACREAGES (As of 1968)

Suffolk County

TOWN	AGRICULTURE		URBAN			FOREST	OTHER	WATER	TOTAL AREA	
	Cropld.	Past.	Resident.	Com-Ind	Pub-Inst				Acres	Sq.Mi.
Boston	*	*	9,420	3,470	15,140	*	1,410	12,420	41,860	65.4
Chelsea	*	*	420	440	430	*	50	190	1,540	2.4
Revere	*	*	1,170	320	1,010	*	1,150	260	3,900	6.1
Winthrop	*	*	520	50	620	*	30	770	1,980	3.1
TOTAL	*	*	11,530	4,280	17,200	*	2,640	13,630	49,280	77.0
PERCENT	**	**	23.4	8.7	34.9	**	5.4	27.6	100.0	

Note: Totals may not add due to rounding *Less than 10 acres April 1971

PRESENT LAND USE ACREAGES (As of 1968)

Worcester County (1 of 3)

TOWN	AGRICULTURE		URBAN			FOREST	OTHER	WATER	TOTAL AREA	
	Cropld.	Past.	Resident.	Com-Ind	Pub-Inst				Acres	Sq.Mi.
Ashburnham	260	100	180	90	230	20,560	3,540	1,340	26,300	41.1
Athol	200	70	820	240	840	15,790	2,710	640	21,310	33.3
Auburn	720	260	1,360	290	1,030	4,880	1,250	770	10,560	16.5
Barre	1,120	400	390	140	950	19,880	5,660	130	28,670	44.8
Berlin	820	290	280	90	360	5,280	1,200	60	8,380	13.1
Blackstone	340	120	560	140	320	4,090	1,600	130	7,300	11.4
Bolton	1,600	580	170	20	560	8,280	1,580	70	12,860	20.1
Boylston	660	240	390	30	410	7,840	540	2,500	12,610	19.7
Brookfield	600	220	300	50	400	6,600	2,390	60	10,620	16.6
Charlton	880	320	630	400	1,020	19,120	5,020	770	28,160	44.0
Clinton	100	40	720	300	570	1,710	80	1,090	4,610	7.2
Douglas	520	190	470	50	640	21,220	590	770	24,450	38.2
Dudley	660	240	800	200	600	7,110	3,890	580	14,080	22.0
East Brookfield	200	70	230	50	260	4,320	1,140	380	6,660	10.4
Fitchburg	1,400	500	1,930	450	1,790	10,480	1,240	60	17,860	27.9
Gardner	300	100	1,360	150	1,250	9,690	1,360	450	14,660	22.9
Grafton	1,890	680	1,060	240	1,090	7,290	2,340	380	14,980	23.4
Hardwich	1,140	410	320	90	650	16,670	5,360	1,410	26,050	40.7
Harvard	1,960	700	450	190	920	10,770	2,030	450	17,470	27.3
Holden	640	230	1,570	280	940	17,270	1,410	960	23,300	36.4
Hopedale	60	20	460	200	230	2,170	120	60	3,330	5.2

PRESENT LAND USE ACREAGES (As of 1968)

Worcester County (2 of 3)

TOWN	AGRICULTURE		URBAN			FOREST	OTHER	WATER	TOTAL AREA	
	Cropld.	Past.	Resident.	Com-Ind	Pub-Inst				Acres	Sq.Mi.
Hubbardston	180	60	60	30	520	21,230	4,160	770	27,010	42.2
Lancaster	2,060	740	670	340	850	11,150	1,920	260	17,980	28.1
Leicester	700	260	920	90	850	10,390	1,510	1,020	15,740	24.6
Leominster	1,580	570	1,280	220	1,200	11,420	1,970	580	18,820	29.4
Lunenburg	2,620	940	720	130	1,120	10,980	320	960	17,790	27.8
Mendon	2,100	760	330	190	310	7,550	220	60	11,520	18.0
Milford	140	50	1,160	340	630	6,630	460	190	9,600	15.0
Millbury	620	220	1,010	140	1,130	5,910	1,210	320	10,560	16.5
Millville	20	10	180	60	100	2,300	450	20	3,140	4.9
New Braintree	1,400	500	60	30	490	6,370	4,530	60	13,440	21.0
Northborough	1,600	580	860	100	620	6,800	1,280	130	11,970	18.7
Northbridge	580	210	870	270	630	7,850	600	510	11,520	18.0
North Brookfield	500	180	430	60	630	7,200	4,570	380	13,950	21.8
Oakham	240	90	200	10	530	10,160	2,150	130	13,500	21.1
Oxford	680	240	930	190	800	11,510	2,670	450	17,470	27.3
Paxton	750	270	430	20	370	6,540	1,030	510	9,920	15.5
Petersham	380	140	50	10	150	31,140	2,500	9,280	43,650	68.2
Phillipston	200	80	60	10	90	13,210	1,840	320	15,810	24.7
Princeton	570	200	280	20	670	18,210	2,710	260	22,910	35.8
Royalston	140	50	50	10	70	23,480	3,270	130	27,200	42.5
Rutland	820	300	360	40	840	17,020	3,080	770	23,230	36.3

PRESENT LAND USE ACREAGES (As of 1968)

Worcester County (3 of 3)

TOWN	AGRICULTURE		URBAN			FOREST	OTHER	WATER	TOTAL AREA	
	Cropld.	Past.	Resident	Com-Ind	Pub-Inst				Acres	Sq.Mi.
Shrewsbury	1,260	460	1,990	450	1,110	7,140	840	640	13,890	21.7
Southborough	1,040	380	700	270	530	5,040	870	1,090	9,920	15.5
Southbridge	220	80	780	440	560	9,360	1,040	640	13,120	20.5
Spencer	550	200	870	120	1,020	13,500	4,600	770	21,630	33.8
Sterling	2,940	1,060	550	270	850	11,700	2,090	830	20,290	31.7
Sturbridge	420	160	210	200	1,280	19,650	2,210	830	24,960	39.0
Sutton	1,530	550	710	260	1,030	14,100	2,750	1,020	21,950	34.3
Templeton	630	220	640	40	1,200	14,560	3,130	260	20,670	32.3
Upton	360	130	460	60	640	10,920	1,380	60	14,020	21.9
Uxbridge	1,300	470	760	170	1,070	13,340	1,770	260	19,140	29.9
Warren	1,020	370	250	80	780	10,260	4,760	150	17,660	27.6
Webster	590	210	910	230	580	5,430	30	1,300	9,280	14.5
Westborough	1,860	670	820	280	1,020	7,030	1,760	320	13,760	21.5
West Boylston	1,310	470	750	130	650	4,780	40	700	8,830	13.8
West Brookfield	900	320	900	120	540	7,880	2,460	320	13,440	21.0
Westminster	660	230	400	50	1,080	17,670	2,630	1,150	23,870	37.3
Winchendon	540	200	600	40	1,100	22,960	2,140	700	28,290	44.2
Worcester	1,060	380	5,840	1,780	4,780	6,520	3,450	640	24,450	38.2
TOTAL	52,140	18,790	43,500	10,990	47,480	669,910	125,440	41,860	1,010,110	1578.3
PERCENT	5.2	1.9	4.3	1.1	4.7	66.3	12.4	4.1	100.0	

Note: Totals may not add due to rounding *Less than 10 acres April 1971

PRESENT LAND USE - BY STUDY AREAS

For purposes of the Massachusetts Water Resources Study, the state was divided into 28 study areas. Primarily a study area was divided along major hydrological boundaries and state lines except in the coastal drainage area. For the coastal drainage area, broad aggregation was made of smaller streams draining into the Atlantic Ocean or Buzzards Bay Area. Cape Cod from the Cape Cod Canal eastward was treated as one Study Area and Dukes and Nantucket Counties as another Study Area.

To reflect present land use by each study area, towns were selected and aggregated which would most nearly reflect the present land use for a particular study area. Therefore, a town would be included in only one study area even though parts of the town might be located in two or more study areas. There was no attempt to determine or pro-rate present land use on a smaller area than a town.

The following list shows towns selected to represent each study area. The map following Appendix A shows locations of study areas.

TOWNS SELECTED TO REPRESENT EACH STUDY AREA

ASSABET

Acton
Berlin
Bolton
Carlisle
Concord
Hudson
Maynard
Northborough
Boxborough
Shrewsbury
Stow
Westborough

BLACKSTONE

Auburn
Blackstone
Douglas
Grafton
Hopedale
Mendon
Millbury
Millville
Northbridge
Sutton
Upton
Uxbridge
Worcester

BUZZARDS BAY

Acushnet
Carver
Dartmouth
Fairhaven
Fall River
Marion
Mattapoisett
New Bedford
Rochester
Wareham
Westport

CAPE COD

Barnstable
Bourne
Brewster
Chatham
Dennis
Eastham
Falmouth
Harwich
Mashpee
Orleans
Provincetown
Sandwich
Truro
Wellfleet
Yarmouth

CENTRAL CONNECTICUT VALLEY

Amherst
Chicopee
Deerfield
Easthampton
Granby
Hadley
Hatfield
Holyoke
Leverett
Montague
Northampton
Pelham
Shutesbury
South Hadley
Southampton
Sunderland
Westhampton
Whately
Williamsburg

CHARLES

Arlington
Bellingham
Belmont
Brookline
Cambridge
Dedham
Dover
Franklin
Holliston
Lexington
Lincoln
Medfield
Medway
Milford
Millis
Natick
Needham
Newton
Norfolk
Sherborn
Somerville
Waltham
Watertown
Wellesley
Weston
Wrentham

CHICOPEE

Barre
Belchertown
Brookfield
East Brookfield
Hardwick
Hubbardston
Ludlow
Monson
New Braintree
New Salem
North Brookfield
Oakham
Palmer
Paxton
Petersham
Phillipston
Rutland
Spencer
Ware
Warren
West Brookfield

CONCORD

Bedford
Billerica

DEERFIELD

Ashfield
Buckland
Charlemont
Colrain
Conway
Florida
Greenfield
Hawley
Heath
Leyden
Monroe
Rowe
Savoy
Shelburne

FARMINGTON

Granville
Otis
Sandisfield
Tolland

HOUSATONIC

Alford
Dalton
Egremont
Great Barrington
Hinsdale
Lanesborough
Lee
Lenox
Monterey
New Marlborough
Pittsfield
Richmond
Sheffield
Stockbridge
Tyringham
Washington
West Stockbridge

HUDSON

Adams
Cheshire
Clarksburg
Hancock
Mount Washington
New Ashford
North Adams
Williamstown

IPSWICH

Boxford
Hamilton
Ipswich
Middleton
North Andover
North Reading
Reading
Topsfield
Wenham
Wilmington

ISLANDS

Chilmark
Edgartown
Gay Head
Gosnold
Nantucket
Oak Bluffs
Tisbury
West Tisbury

MERRIMACK

Amesbury
Andover
Burlington
Chelmsford
Dracut
Dunstable
Haverhill
Littleton
Lowell
Lawrence
Merrimac
Methuen
Salisbury
Tewksbury
Tyngsborough
Westford
West Newbury

MILLERS

Ashburnham
Athol
Erving
Gardner
Orange
Royalston
Templeton
Warwick
Wendell
Winchendon

NARRAGANSETT BAY

Attleboro
North Attleboro
Plainville
Rehoboth
Seekonk
Somerset
Swansea

NASHUA

Ashby
Ayer
Boylston
Clinton
Fitchbury
Groton
Harvard
Holden
Lancaster
Leominster
Lunenburg
Pepperell
Princeton
Shirley
Sterling
Townsend
West Boylston
Westminster

NEPONSET

Boston
Canton
Milton
Norwood
Sharon
Walpole
Westwood

NORTH SHORE

Beverly
Chelsea
Danvers
Essex
Everett
Gloucester
Lynn
Lynnfield
Malden
Manchester
Marblehead
Medford
Melrose
Nahant
Peabody
Revere
Rockport
Salem
Saugus
Stoneham
Swampscott
Wakefield
Winchester
Winthrop
Woburn

NORTHERN CONNECTICUT VALLEY

Bernardston
Gill
Northfield

PARKER

Georgetown
Groveland
Newbury
Newburyport
Rowley

SOUTH SHORE

Braintree
Cohasset
Duxbury
Hanover
Hingham
Holbrook
Hull
Kingston
Marshfield
Norwell
Pembroke
Plymouth
Quincy
Randolph
Rockland
Scituate
Weymouth

SOUTHERN CONNECTICUT VALLEY

Agawam
East Longmeadow
Hampden
Longmeadow
Springfield
Wilbraham

SUDBURY

Ashland
Framingham
Hopkinton
Marlborough
Sudbury
Southborough
Wayland

TAUNTON

Abington
Avon
Berkley
Bridgewater
Brockton
Dighton
East Bridgewater
Easton
Foxborough
Freetown
Halifax
Hanson
Lakeville
Mansfield
Middleborough
Norton
Plympton
Raynham
Stoughton
Taunton
West Bridgewater
Whitman

THAMES

Brimfield
Charlton
Dudley
Holland
Leicester
Oxford
Southbridge
Sturbridge
Wales
Webster

WESTFIELD

Becket
Blandford
Chester
Chesterfield
Cummington
Goshen
Huntington
Middlefield
Montgomery
Peru
Plainfield
Russell
Southwick
Westfield
West Springfield
Windsor
Worthington

For the present land use within a study area, the percentages of each land use class in the towns representing that study area will be used to reflect the estimated land use for that study area.

Following are "Present Land Use" tables for each of the 28 study areas.

PRESENT LAND USE ACREAGES (As of 1968)

Assabet Study Area

TOWN	AGRICULTURE		URBAN			FOREST	OTHER	WATER	TOTAL AREA	
	Cropld.	Past.	Resident.	Com-Ind	Pub-Inst				Acres	Sq.Mi.
Acton	680	170	1,330	440	730	7,300	2,280	130	13,060	20.4
Berlin	820	290	280	90	360	5,280	1,200	60	8,380	13.1
Bolton	1,600	580	170	20	560	8,280	1,580	70	12,860	20.1
Boxborough	230	60	200	200	200	3,400	2,470	20	6,780	10.6
Carlisle	380	100	500	10	340	5,620	2,960	80	9,980	25.9
Concord	1,980	490	2,000	240	3,310	5,980	2,260	320	16,580	25.9
Hudson	470	120	1,050	320	600	3,340	1,590	130	7,620	11.9
Maynard	150	40	700	120	500	1,300	520	60	3,390	5.3
Northborough	1,600	580	860	100	620	6,800	1,280	130	11,970	18.7
Shrewsbury	1,260	460	1,990	450	1,110	7,140	840	640	13,890	21.7
Stow	670	170	1,000	100	2,500	5,800	1,220	190	11,650	18.2
Westborough	1,860	670	820	280	1,020	7,030	1,760	320	13,760	21.5
TOTAL	11,700	3,730	10,900	2,370	11,850	67,270	19,940	2,160	129,920	203.0
PERCENT	9.0	2.9	8.4	1.8	9.1	51.8	15.3	1.7	100.0	

Note: Totals may not add due to rounding *Less than 10 acres April 1971

PRESENT LAND USE ACREAGES (As of 1968)

Blackstone Study Area

TOWN	AGRICULTURE		URBAN			FOREST	OTHER	WATER	TOTAL AREA	
	Cropld.	Past.	Resident.	Com-Ind	Pub-Inst				Acres	Sq.Mi.
Auburn	720	260	1,360	290	1,030	4,880	1,250	770	10,560	16.5
Blackstone	340	120	560	140	320	4,090	1,600	130	7,300	11.4
Douglas	520	190	470	50	640	21,220	590	770	24,450	38.2
Grafton	1,890	680	1,060	240	1,090	7,290	2,340	380	14,980	23.4
Hopedale	60	20	460	200	230	2,170	120	60	3,330	5.2
Mendon	2,100	760	330	190	310	7,550	220	60	11,520	18.0
Millbury	620	220	1,010	140	1,130	5,910	1,210	320	10,560	16.5
Millville	20	10	180	60	100	2,300	450	20	3,140	4.9
Northbridge	580	210	870	270	630	7,850	600	510	11,520	18.0
Sutton	1,530	550	710	260	1,030	14,100	2,750	1,020	21,950	34.3
Upton	360	130	460	60	640	10,920	1,380	60	14,020	21.9
Uxbridge	1,300	470	760	170	1,070	13,340	1,770	260	19,140	29.9
Worcester	1,060	380	5,840	1,780	4,780	6,520	3,450	640	24,450	38.2
TOTAL	11,100	4,000	14,070	3,850	13,000	108,140	17,720	5,010	176,900	276.4
PERCENT	6.3	2.3	7.9	2.2	7.4	61.1	10.0	2.8	100.0	

Note: Totals may not add due to rounding *Less than 10 acres April 1971

PRESENT LAND USE ACREAGES (As of 1968)

Buzzards Bay Study Area

TOWN	AGRICULTURE		URBAN			FOREST	OTHER	WATER	TOTAL AREA	
	Cropld.	Past.	Resident.	Com-Ind	Pub-Inst				Acres	Sq.Mi.
Acushnet	1,300	1,000	630	320	210	6,000	2,320	380	12,160	19.0
Carver	3,300	500	400	250	300	15,120	4,070	1,280	25,220	39.4
Dartmouth	3,000	2,900	2,900	950	1,440	26,000	1,850	3,070	42,110	65.8
Fairhaven	900	500	1,230	220	570	3,630	690	1,860	9,600	15.0
Fall River	500	100	2,700	1,500	1,300	14,000	1,020	4,220	25,340	39.6
Marion	240	200	780	130	510	6,510	400	2,430	11,200	17.5
Mattapoisett	500	150	660	170	390	8,300	840	960	11,970	18.7
New Bedford	*	*	2,530	1,890	1,610	3,000	3,450	1,340	13,820	21.6
Rochester	2,000	500	390	390	200	16,180	1,590	1,600	22,850	35.7
Wareham	2,500	500	1,890	800	870	14,720	740	3,970	25,980	40.6
Westport	2,700	3,000	1,670	530	1,130	20,850	1,670	4,740	36,290	56.7
TOTAL	16,940	9,350	15,780	7,150	8,530	134,310	18,630	25,860	236,540	369.6
PERCENT	7.2	4.0	6.6	3.0	3.6	56.8	7.9	10.9	100.0	

Note: Totals may not add due to rounding *Less than 10 acres April 1971

PRESENT LAND USE ACREAGES (As of 1968)

Cape Cod Study Area

TOWN	AGRICULTURE		URBAN			FOREST	OTHER	WATER	TOTAL AREA	
	Cropld.	Past.	Resident.	Com-Ind	Pub-Inst				Acres	Sq.Mi.
Barnstable	740	70	2,250	600	2,220	16,100	15,820	1,880	39,680	62.0
Bourne	280	80	950	950	1,210	19,800	2,590	4,030	29,890	46.7
Brewster	410	30	680	70	1,070	12,000	400	1,470	16,130	25.2
Chatham	170	30	1,750	330	340	3,980	4,020	4,860	15,490	24.2
Dennis	240	10	1,550	660	810	7,830	1,890	1,020	14,020	21.9
Eastham	400	*	280	40	310	4,830	2,970	1,220	10,050	15.7
Falmouth	1,310	50	3,600	400	950	18,190	3,650	3,900	32,060	50.1
Harwich	690	140	1,770	360	2,000	8,580	160	900	14,590	22.8
Mashpee	340	90	650	70	1,730	10,100	1,860	2,500	17,340	27.1
Orleans	210	20	1,590	150	230	5,450	1,180	4,610	13,440	21.0
Provincetown	*	*	180	90	190	2,090	3,590	1,220	7,360	11.5
Sandwich	630	90	450	280	6,980	18,500	390	830	28,160	44.0
Truro	110	*	210	150	250	9,270	3,450	510	13,950	21.8
Wellfleet	50	10	870	170	700	8,200	2,540	1,660	14,210	22.2
Yarmouth	310	60	1,870	210	1,600	8,730	2,710	5,950	21,440	33.5
TOTAL	5,900	690	18,650	4,530	20,590	153,650	47,230	36,570	287,810	449.7
PERCENT	2.0	0.2	6.5	1.6	7.2	53.4	16.4	12.7	100.0	

Note: Totals may not add due to rounding *Less than 10 acres April 1971

PRESENT LAND USE ACREAGES (As of 1968)

Charles Study Area (1 of 2)

TOWN	AGRICULTURE		URBAN			FOREST	OTHER	WATER	TOTAL AREA	
	Cropld.	Past.	Resident	Com-Ind	Pub-Inst				Acres	Sq.Mi.
Arlington	*	*	2,000	130	740	100	230	190	3,390	5.3
Bellingham	700	200	1,000	400	750	6,920	1,550	450	11,970	18.7
Belmont	*	*	1,500	70	1,090	250	60	30	3,010	4.7
Brookline	*	*	2,170	180	1,500	*	470	30	4,350	6.8
Cambridge	*	*	1,300	700	1,800	10	160	580	4,540	7.1
Dedham	100	10	2,200	440	1,790	2,000	120	130	6,780	10.6
Dover	600	110	1,100	120	460	6,260	1,050	30	9,730	15.2
Franklin	1,000	390	1,200	380	820	11,470	1,560	130	17,020	26.6
Holliston	550	140	1,100	300	600	6,580	2,830	130	12,220	19.1
Lexington	550	140	3,700	400	2,000	3,000	640	130	10,560	16.5
Lincoln	580	140	1,500	100	500	4,600	1,860	380	9,660	15.1
Medfield	520	140	940	180	1,280	4,970	800	390	9,220	14.4
Medway	600	160	800	290	320	4,530	630	30	7,360	11.5
Milford	140	50	1,160	340	630	6,630	460	190	9,600	15.0

PRESENT LAND USE ACREAGES (As of 1968)

Charles Study Area (2 of 2)

TOWN	AGRICULTURE		URBAN			FOREST	OTHER	WATER	TOTAL AREA	
	Cropld.	Past.	Resident.	Com-Ind	Pub-Inst				Acres	Sq.Mi.
Millis	700	210	650	170	500	4,560	890	60	7,740	12.1
Natick	290	70	3,000	500	1,500	3,370	740	640	10,110	15.8
Needham	200	50	2,770	450	1,450	2,850	60	230	8,060	12.6
Newton	200	50	5,770	600	4,100	500	310	60	11,520	18.0
Norfolk	600	110	630	170	680	5,850	1,450	130	9,660	15.1
Sherborn	450	110	800	300	500	5,890	2,250	130	10,430	16.3
Somerville	*	*	1,100	400	600	*	520	60	2,690	4.2
Waltham	200	50	2,400	700	3,000	1,500	150	700	8,700	13.6
Watertown	*	*	1,100	300	1,100	*	60	70	2,620	4.1
Wellesley	100	10	2,970	180	1,970	1,000	170	260	6,660	10.4
Weston	330	80	3,000	250	1,500	5,320	400	260	11,140	17.4
Wrentham	700	140	850	380	790	10,100	860	380	14,210	22.2
TOTAL	9,110	2,360	46,700	8,430	31,790	98,260	20,280	5,800	222,950	384.4
PERCENT	4.1	1.1	21.0	3.8	14.3	44.1	9.0	2.6	100.0	

Note: Totals may not add due to rounding *Less than 10 acres April 1971

PRESENT LAND USE ACREAGES (As of 1968)

Chicopee Study Area

TOWN	AGRICULTURE		URBAN			FOREST	OTHER	WATER	TOTAL AREA	
	Cropld.	Past.	Resident.	Com-Ind	Pub-Inst				Acres	Sq.Mi.
Barre	1,120	400	390	140	950	19,880	5,660	130	28,670	44.8
Belchertown	2,010	1,500	1,110	230	1,660	20,080	7,020	1,780	35,390	55.3
Brookfield	600	220	300	50	400	6,600	2,390	60	10,620	16.6
East Brookfield	200	70	230	50	260	4,320	1,140	380	6,660	10.4
Hardwick	1,140	410	320	90	650	16,670	5,360	1,410	26,050	40.7
Hubbardston	180	60	60	30	520	21,230	4,160	770	27,010	42.2
Ludlow	860	300	2,440	300	3,010	9,900	590	710	18,110	28.3
Monson	690	230	560	230	1,110	21,820	4,020	80	28,740	44.9
New Braintree	1,400	500	60	30	490	6,370	4,530	60	13,440	21.0
New Salem	210	70	190	20	70	27,500	550	9,410	38,020	59.4
North Brookfield	500	180	430	60	630	7,200	4,570	380	13,950	21.8
Oakham	240	90	200	10	530	10,160	2,150	130	13,500	21.1
Palmer	280	90	920	260	330	14,200	4,110	350	20,540	32.1
Paxton	750	270	430	20	370	6,540	1,030	510	9,920	15.5
Petersham	380	140	50	10	150	31,140	2,500	9,280	43,650	68.2
Phillipston	200	80	60	10	90	13,210	1,840	320	15,810	24.7
Rutland	820	300	360	40	840	17,020	3,080	770	23,230	36.3
Spencer	550	200	870	120	1,020	13,500	4,600	770	21,630	33.8
Ware	760	1,050	660	100	300	15,040	4,430	3,200	25,540	39.9
Warren	1,020	370	250	80	780	10,260	4,760	140	17,660	27.6
West Brookfield	900	320	900	120	540	7,880	2,460	320	13,440	21.0
TOTAL	14,810	6,850	10,790	2,000	14,700	300,520	70,950	30,970	451,580	705.6
PERCENT	3.3	1.5	2.4	0.4	3.3	66.5	15.7	6.9	100.0	

Note: Totals may not add due to rounding *Less than 10 acres

PRESENT LAND USE ACREAGES (As of 1968)

Concord Study Area

TOWN	AGRICULTURE		URBAN			FOREST	OTHER	WATER	TOTAL AREA	
	Cropld.	Past.	Resident.	Com-Ind	Pub-Inst				Acres	Sq.Mi.
Bedford	350	90	1,250	180	1,900	3,900	1,220	60	8,960	14.0
Billerica	470	120	2,450	460	1,710	9,170	2,520	130	17,020	26.6
TOTAL	820	210	3,700	640	3,610	13,070	3,740	190	25,980	40.6
PERCENT	3.2	0.8	14.2	2.5	13.9	50.3	14.4	0.7	100.0	

Note: Totals may not add due to rounding *Less than 10 acres April 1971

PRESENT LAND USE ACREAGES (As of 1968)

Northern Connecticut Valley Study Area

TOWN	AGRICULTURE		URBAN			FOREST	OTHER	WATER	TOTAL AREA	
	Cropld.	Past.	Resident.	Com-Ind	Pub-Inst				Acres	Sq.Mi.
Bernardston	850	100	350	70	130	11,880	1,420	50	14,850	23.2
Gill	1,730	520	310	70	550	5,630	150	580	9,540	14.9
Northfield	2,000	600	430	170	2,000	16,000	940	700	22,850	35.7
TOTAL	4,580	1,200	1,090	310	2,680	33,510	2,510	1,330	47,240	73.8
PERCENT	9.9	2.5	2.3	0.6	5.7	70.9	5.3	2.8	100.0	

Note: Totals may not add due to rounding *Less than 10 acres April 1971

PRESENT LAND USE ACREAGES (As of 1968)

Central Connecticut Valley Study Area

TOWN	AGRICULTURE		URBAN			FOREST	OTHER	WATER	TOTAL AREA	
	Cropld.	Past.	Resident	Com-Ind	Pub-Inst				Acres	Sq.Mi.
Amherst	5,150	840	2,090	210	970	7,310	960	140	17,660	27.6
Chicopee	170	60	3,940	760	5,390	1,000	3,110	680	15,100	23.6
Deerfield	5,000	1,500	490	60	460	13,000	670	380	21,570	33.7
Easthampton	2,120	150	1,220	140	430	3,840	620	180	8,710	13.6
Granby	3,440	660	1,140	250	490	10,370	1,420	220	17,980	28.1
Hadley	9,380	100	880	120	340	3,980	70	940	15,810	24.7
Hatfield	4,460	100	480	60	170	4,360	520	470	10,620	16.6
Holyoke	450	150	2,000	460	1,420	6,430	2,380	1,110	14,400	22.5
Leverett	350	100	290	40	210	12,820	970	130	14,910	23.3
Montague	1,370	410	820	120	770	15,800	230	830	20,350	31.8
Northampton	4,830	380	2,060	500	1,490	11,780	780	830	22,660	35.4
Pelham	210	200	230	30	380	13,390	1,340	1,120	16,900	26.4
Shutesbury	500	150	210	30	100	15,500	660	380	17,540	27.4
South Hadley	2,190	600	2,060	150	830	5,260	200	490	11,780	18.4
Southampton	2,980	360	820	70	380	12,560	720	670	18,560	29.0
Sunderland	4,400	1,600	290	40	110	2,500	280	320	9,540	14.0
Westhampton	410	380	340	130	150	14,510	1,520	160	17,600	27.5
Whately	4,500	1,350	260	40	160	6,000	870	130	13,310	20.8
Williamsburg	830	400	410	30	150	12,650	1,920	60	16,450	25.7
TOTAL	52,740	9,490	20,030	3,240	14,400	173,060	19,240	9,240	301,440	471.1
PERCENT	17.5	3.1	6.6	1.1	4.8	57.4	6.4	3.1	100.0	

Note: Totals may not add due to rounding *Less than 10 acres April 1971

PRESENT LAND USE ACREAGES (As of 1968)

Southern Connecticut Valley Study Area

TOWN	AGRICULTURE		URBAN			FOREST	OTHER	WATER	TOTAL AREA	
	Cropld.	Past.	Resident.	Com-Ind	Pub-Inst				Acres	Sq.Mi.
Agawam	3,190	1,070	2,740	330	1,220	5,340	1,270	450	15,620	24.4
East Longmeadow	780	260	2,050	220	580	3,000	1,380	50	8,320	13.0
Hampden	980	330	1,490	130	570	8,750	260	100	12,610	19.7
Longmeadow	150	30	2,440	40	590	2,400	110	390	6,140	9.6
Springfield	10	*	7,050	2,160	4,300	6,000	850	560	20,930	32.7
Wilbraham	700	230	2,730	340	820	8,570	690	250	14,340	22.4
TOTAL	5,810	1,920	18,500	3,220	8,080	34,060	4,560	1,800	77,960	121.8
PERCENT	7.5	2.5	23.7	4.1	10.4	43.7	5.8	2.3	100.0	

Note: Totals may not add due to rounding *Less than 10 acres

April 1971

PRESENT LAND USE ACREAGES (As of 1968)

Deerfield Study Area

TOWN	AGRICULTURE		URBAN			FOREST	OTHER	WATER	TOTAL AREA	
	Cropld.	Past.	Resident.	Com-Ind	Pub-Inst				Acres	Sq.Mi.
Ashfield	1,770	530	380	40	220	20,690	2,420	450	26,500	41.4
Buckland	200	70	350	50	270	10,000	850	110	11,900	18.6
Charlemont	400	120	270	260	270	14,260	1,070	250	16,900	26.4
Colrain	380	110	300	50	260	22,940	3,930	130	28,100	43.9
Conway	720	220	140	10	220	20,430	2,730	40	24,510	38.3
Florida	500	300	80	40	250	14,050	620	30	15,870	24.8
Greenfield	980	300	1,540	580	1,300	7,140	2,110	130	14,080	22.0
Hawley	960	290	120	10	120	17,940	520	10	19,970	31.2
Heath	370	50	170	20	170	13,700	1,580	10	16,060	25.1
Leyden	810	240	100	20	90	8,520	1,810	60	11,650	18.2
Monroe	100	30	40	10	70	6,000	660	60	6,980	10.9
Rowe	120	60	140	60	120	14,310	610	130	15,550	24.3
Savoy	670	400	160	*	200	20,770	970	60	23,230	36.3
Shelburne	1,960	580	320	80	200	10,390	1,530	110	15,170	23.7
TOTAL	9,940	3,300	4,110	1,230	3,760	201,140	21,410	1,580	246,470	385.1
PERCENT	4.0	1.4	1.7	0.5	1.5	81.6	8.7	0.6	100.0	

Note: Totals may not add due to rounding *Less than 10 acres April 1971

PRESENT LAND USE ACREAGES (As of 1968)

Farmington Study Area

TOWN	AGRICULTURE		URBAN			FOREST	OTHER	WATER	TOTAL AREA	
	Cropld.	Past.	Resident	Com-Ind	Pub-Inst				Acres	Sq.Mi.
Granville	1,090	370	300	40	260	23,170	1,930	680	27,840	43.5
Otis	50	30	320	60	250	21,780	680	1,410	24,580	38.4
Sandisfield	90	50	110	10	250	31,220	2,250	260	34,240	53.5
Tolland	200	70	220	20	120	18,770	1,050	670	21,120	33.0
TOTAL	1,430	520	950	130	880	94,940	5,910	3,020	107,780	168.4
PERCENT	1.3	0.5	0.9	0.1	0.8	88.1	5.5	2.8	100.0	

Note: Totals may not add due to rounding *Less than 10 acres April 1971

PRESENT LAND USE ACREAGES (As of 1968)

Housatonic Study Area

TOWN	AGRICULTURE		URBAN			FOREST	OTHER	WATER	TOTAL AREA	
	Cropld.	Past.	Resident	Com-Ind	Pub-Inst				Acres	Sq.Mi.
Alford	700	420	70	*	50	4,970	1,210	10	7,420	11.6
Dalton	700	410	870	130	300	11,140	560	30	14,140	22.1
Egremont	2,070	1,230	200	40	150	7,070	1,270	130	12,160	19.0
Great Barrington	3,340	1,980	1,100	160	500	20,230	1,940	320	29,570	46.2
Hinsdale	170	100	210	20	100	9,830	2,940	640	14,020	21.9
Lanesborough	1,140	680	400	130	250	12,470	3,620	510	19,200	30.0
Lee	980	580	630	220	400	11,400	2,750	510	17,470	27.3
Lenox	770	460	520	140	800	9,240	1,960	130	14,020	21.9
Monterey	250	140	60	20	150	15,880	660	580	17,730	27.7
New Marlborough	910	540	210	20	250	23,630	5,030	320	30,910	48.3
Pittsfield	2,370	1,400	5,620	660	1,500	10,650	3,660	1,090	26,940	42.1
Richmond	1,550	920	570	30	250	6,960	1,820	190	12,290	19.2
Sheffield	5,240	3,110	170	80	350	18,640	3,640	130	31,360	49.0
Stockbridge	480	290	780	70	300	9,670	3,130	510	15,230	23.8
Tyringham	380	230	100	*	50	9,800	1,540	130	12,220	19.1
Washington	140	80	120	*	100	23,160	1,170	260	25,020	39.1
West Stockbridge	1,190	700	360	100	200	7,720	1,700	60	12,030	18.8
TOTAL	22,380	13,270	11,990	1,820	5,700	212,460	38,600	5,550	311,730	487.1
PERCENT	7.2	4.3	3.8	0.5	1.8	68.2	12.4	1.8	100.0	

Note: Totals may not add due to rounding *Less than 10 acres April 1971

PRESENT LAND USE ACREAGES (As of 1968)

Hudson Study Area

TOWN	AGRICULTURE		URBAN			FOREST	OTHER	WATER	TOTAL AREA	
	Cropld.	Past.	Resident.	Com-Ind	Pub-Inst				Acres	Sq.Mi.
Adams	1,100	660	2,230	730	250	8,640	1,080	30	14,720	23.0
Cheshire	1,520	900	360	60	200	10,350	3,890	450	17,730	27.7
Clarksburg	170	100	140	20	150	6,850	760	60	8,260	12.9
Hancock	800	480	380	20	100	18,700	2,460	30	22,980	35.9
Mount Washington	160	100	20	*	100	13,900	60	60	14,410	22.5
New Ashford	70	40	80	10	50	7,890	480	20	8,640	13.5
North Adams	810	480	2,030	300	450	8,730	270	50	13,120	20.5
Williamstown	2,690	1,600	890	120	1,250	19,950	3,730	40	30,270	47.3
TOTAL	7,320	4,360	6,130	1,260	2,550	95,010	12,730	740	130,130	203.3
PERCENT	5.6	3.4	4.7	1.0	1.9	73.0	9.8	0.6	100.0	

Note: Totals may not add due to rounding *Less than 10 acres April 1971

PRESENT LAND USE ACREAGES (As of 1968)

Ipswich Study Area

TOWN	AGRICULTURE		URBAN			FOREST	OTHER	WATER	TOTAL AREA	
	Cropld.	Past.	Resident.	Com-Ind	Pub-Inst				Acres	Sq.Mi.
Boxford	600	200	1,000	150	800	12,400	210	380	15,740	24.6
Hamilton	900	300	1,100	70	1,500	5,000	470	260	9,600	15.0
Ipswich	1,600	500	1,500	300	4,000	10,000	3,350	3,070	24,320	38.0
Middleton	200	50	900	400	700	6,000	900	130	9,280	14.5
North Andover	900	200	1,200	400	1,500	11,500	1,320	770	17,790	27.8
North Reading	200	50	1,200	350	1,000	4,750	960	190	8,700	13.6
Reading	180	50	1,790	350	1,000	2,420	540	10	6,340	9.9
Topsfield	500	200	1,000	150	1,000	4,800	480	60	8,190	12.8
Wenham	200	50	700	80	400	2,900	600	320	5,250	8.2
Wilmington	300	80	1,900	350	1,000	5,750	1,530	100	11,010	17.2
TOTAL	5,580	1,680	12,290	2,600	12,900	65,520	10,360	5,290	116,220	181.6
PERCENT	4.8	1.5	10.6	2.2	11.1	56.4	8.9	4.5	100.0	

Note: Totals may not add due to rounding *Less than 10 acres April 1971

PRESENT LAND USE ACREAGES (As of 1968)

Islands Study Area

TOWN	AGRICULTURE		URBAN			FOREST	OTHER	WATER	TOTAL AREA	
	Cropld.	Past.	Resident.	Com-Ind	Pub-Inst				Acres	Sq.Mi.
Chilmark	*	200	350	*	130	8,800	2,620	1,540	13,630	21.3
Edgartown	*	120	700	20	240	11,900	4,040	5,820	22,850	35.7
Gay Head	*	*	100	*	50	1,500	1,870	640	4,160	6.5
Gosnold	*	400	80	*	10	2,300	5,660	2,180	10,620	16.6
Nantucket	500	370	2,550	200	800	3,770	22,810	5,480	36,480	57.0
Oak Bluffs	*	*	950	20	340	2,550	930	1,090	5,820	9.1
Tisbury	20	80	700	50	90	2,900	380	1,150	5,380	8.4
West Tisbury	70	230	220	10	300	12,000	3,550	1,090	17,470	27.3
TOTAL	590	1,400	5,650	300	1,960	45,670	41,860	18,990	116,410	181.9
PERCENT	0.5	1.2	4.9	0.3	1.7	39.2	35.9	16.3	100.0	

Note: Totals may not add due to rounding *Less than 10 acres

April 1971

PRESENT LAND USE ACREAGES (As of 1968)

Merrimack Study Area

TOWN	AGRICULTURE		URBAN			FOREST	OTHER	WATER	TOTAL AREA	
	Cropld.	Past.	Resident.	Com-Ind	Pub-Inst				Acres	Sq.Mi.
Amesbury	1,000	250	1,200	250	800	3,900	150	1,220	8,770	13.7
Andover	600	200	2,300	700	2,500	12,100	1,500	900	20,800	32.5
Burlington	360	90	2,000	780	800	3,550	20	10	7,620	11.9
Chelmsford	580	150	3,150	590	1,560	5,960	2,600	320	14,910	23.3
Dracut	560	140	1,600	460	1,320	7,070	2,350	320	13,820	21.6
Dunstable	470	120	200	100	200	7,040	2,620	60	10,820	16.9
Haverhill	1,400	300	3,000	1,000	2,700	10,100	2,170	1,540	22,210	34.7
Littleton	800	200	800	400	800	4,640	2,920	640	11,200	17.5
Lowell	360	90	3,100	900	3,500	500	250	510	9,220	14.4
Lawrence	100	50	1,700	700	1,500	200	100	380	4,740	7.4
Merrimack	300	50	600	100	300	3,000	1,150	190	5,700	8.9
Methuen	1,100	250	2,500	550	1,700	6,000	2,170	380	14,660	22.9
Salisbury	400	50	700	200	500	4,300	3,710	900	10,750	16.8
Tewksbury	1,070	270	1,800	700	1,500	6,060	1,980	260	13,630	21.3
Tyngsborough	280	60	700	150	1,000	6,140	2,490	770	11,590	18.1
Westford	550	140	1,400	300	1,000	13,490	2,770	510	20,160	31.5
West Newbury	600	100	400	50	500	4,000	3,180	640	9,470	14.8
TOTAL	10,530	2,510	27,150	7,930	22,180	98,050	32,150	9,550	210,050	328.2
PERCENT	5.0	1.2	12.9	3.8	10.6	46.7	15.3	4.5	100.0	

Note: Totals may not add due to rounding *Less than 10 acres April 1971

PRESENT LAND USE ACREAGES (As of 1968)

Millers Study Area

TOWN	AGRICULTURE		URBAN			FOREST	OTHER	WATER	TOTAL AREA	
	Cropld.	Past.	Resident.	Com-Ind	Pub-Inst				Acres	Sq.Mi.
Ashburnham	260	100	180	90	230	20,560	3,540	1,340	26,300	41.1
Athol	200	70	820	240	840	15,800	2,700	640	21,310	33.3
Erving	350	40	240	200	160	7,060	1,170	60	9,280	14.5
Gardner	300	100	1,360	150	1,250	9,690	1,360	450	14,660	22.9
Orange	310	90	900	110	900	16,750	3,920	380	23,360	36.5
Royalston	140	50	50	10	70	23,480	3,270	130	27,200	42.5
Templeton	630	220	640	40	1,200	14,560	3,130	260	20,670	32.3
Warwick	630	190	110	10	140	22,490	750	130	24,450	38.6
Wendell	130	80	130	20	100	19,300	1,040	60	20,860	32.6
Winchendon	540	200	600	40	1,100	22,960	2,140	700	28,290	44.2
TOTAL	3,490	1,140	5,030	910	5,990	172,650	23,020	4,150	216,380	338.1
PERCENT	1.6	0.5	2.3	0.4	2.8	79.9	10.6	1.9	100.0	

Note: Totals may not add due to rounding *Less than 10 acres April 1971

PRESENT LAND USE ACREAGES (As of 1968)

Narragansett Bay Study Area

TOWN	AGRICULTURE		URBAN			FOREST	OTHER	WATER	TOTAL AREA	
	Cropld.	Past.	Resident.	Com-Ind	Pub-Inst				Acres	Sq.Mi.
Attleboro	500	400	1,950	960	1,310	9,300	2,860	190	17,470	27.2
North Attleboro	680	590	1,400	500	570	6,780	1,580	320	12,420	19.4
Plainville	480	70	580	280	540	4,120	910	320	7,300	11.4
Rehoboth	2,500	2,000	660	420	1,070	20,190	3,430	190	30,460	47.6
Seekonk	920	870	950	650	840	5,580	2,090	60	11,970	18.7
Somerset	200	400	1,050	380	450	1,300	1,340	2,500	7,620	11.9
Swansea	1,600	700	1,250	630	800	7,370	2,180	1,660	16,190	25.3
TOTAL	6,880	5,030	7,840	3,820	5,580	54,640	14,390	5,240	103,430	161.6
PERCENT	6.6	4.9	7.6	3.7	5.4	52.8	13.9	5.1	100.0	

Note: Totals may not add due to rounding *Less than 10 acres April 1971

PRESENT LAND USE ACREAGES (As of 1968)

Nashua Study Area

TOWN	AGRICULTURE		URBAN			FOREST	OTHER	WATER	TOTAL AREA	
	Cropld.	Past.	Resident.	Com-Ind	Pub-Inst				Acres	Sq.Mi.
Ashby	600	150	200	100	200	11,160	2,890	260	15,550	24.3
Ayer	320	80	400	330	470	2,670	1,490	320	6,080	9.5
Boylston	660	240	390	30	410	7,840	540	2,500	12,610	19.7
Clinton	100	40	720	300	570	1,710	80	1,090	4,610	7.2
Fitchburg	1,400	500	1,930	450	1,790	10,480	1,240	60	17,860	27.9
Groton	1,780	440	850	300	1,560	13,670	2,460	640	21,700	33.9
Harvard	1,960	700	450	190	920	10,770	2,030	450	17,470	27.3
Holden	640	230	1,570	280	940	17,270	1,410	960	23,300	36.4
Lancaster	2,060	740	670	340	850	11,150	1,920	260	17,980	28.1
Leominster	1,580	570	1,280	220	1,200	11,420	1,970	580	18,820	29.4
Lunenburg	2,620	940	720	130	1,120	10,980	320	960	17,790	27.4
Pepperell	1,500	380	600	100	520	8,640	2,980	320	15,040	23.5
Princeton	570	200	280	20	670	18,210	2,710	260	22,910	35.8
Shirley	550	140	500	300	500	6,070	2,110	70	10,240	16.0
Sterling	2,940	1,060	550	270	850	11,700	2,090	830	20,290	31.7
Townsend	800	200	300	100	300	16,480	2,960	110	21,250	33.2
West Boylston	1,310	470	750	130	650	4,780	40	700	8,830	13.8
Westminster	660	230	400	50	1,080	17,670	2,630	1,150	23,870	37.3
TOTAL	22,050	7,310	12,560	3,640	14,600	192,670	31,870	11,520	296,200	462.4
PERCENT	7.4	2.5	4.2	1.2	4.9	65.1	10.8	3.9	100.0	

Note: Totals may not add due to rounding *Less than 10 acres April 1971

PRESENT LAND USE ACREAGES (As of 1968)

Neponset Study Area

TOWN	AGRICULTURE		URBAN			FOREST	OTHER	WATER	TOTAL AREA	
	Cropld.	Past.	Resident.	Com-Ind	Pub-Inst				Acres	Sq.Mi.
Boston	*	*	9,420	3,470	15,140	*	1,410	12,420	41,860	65.4
Canton	300	100	2,000	700	2,500	6,000	190	510	12,350	19.2
Milton	150	20	2,900	160	2,270	2,500	260	130	8,380	13.1
Norwood	110	30	1,680	700	1,270	2,240	560	60	6,660	10.4
Sharon	540	190	1,400	300	1,140	10,000	1,340	450	15,360	24.0
Walpole	800	120	1,700	650	1,150	7,000	1,570	320	13,310	20.8
Westwood	320	130	1,820	90	1,100	3,110	410	60	7,040	11.0
TOTAL	2,220	590	20,920	6,070	24,620	30,850	5,740	13,950	104,960	164.0
PERCENT	2.1	0.6	20.0	5.8	23.3	29.4	5.5	13.3	100.0	

Note: Totals may not add due to rounding *Less than 10 acres April 1971

PRESENT LAND USE ACREAGES (As of 1968)

North Shore Study Area (1 of 2)

TOWN	AGRICULTURE		URBAN			FOREST	OTHER	WATER	TOTAL AREA	
	Cropld.	Past.	Resident.	Com-Ind	Pub-Inst				Acres	Sq.Mi.
Beverly	300	200	2,800	350	1,600	4,000	290	770	10,300	16.1
Chelsea	*	*	420	440	430	*	50	190	1,540	2.4
Danvers	1,000	300	1,900	300	1,600	3,000	220	640	8,960	14.0
Essex	800	200	600	90	800	5,400	1,070	1,340	10,300	16.1
Everett	*	*	800	120	800	*	390	190	2,300	3.6
Gloucester	200	50	2,500	500	1,500	11,000	60	3,780	19,580	30.6
Lynn	*	*	2,500	700	1,000	2,300	220	900	7,620	11.0
Lynnfield	100	50	1,500	200	1,000	3,000	610	260	6,720	10.5
Nahant	*	*	400	*	260	*	40	130	830	1.3
Malden	*	*	1,450	320	1,050	100	320	20	3,260	5.1
Manchester	100	50	1,000	50	700	3,000	30	450	5,380	8.4
Marblehead	*	*	1,600	100	700	100	190	960	3,650	5.7
Medford	*	*	2,000	400	2,500	200	20	320	5,440	8.5

PRESENT LAND USE ACREAGES (As of 1968)

North Shore Study Area (2 of 2)

TOWN	AGRICULTURE		URBAN			FOREST	OTHER	WATER	TOTAL AREA	
	Cropld.	Past.	Resident.	Com-Ind	Pub-Inst				Acres	Sq.Mi.
Melrose	*	*	1,500	150	1,000	100	220	40	3,010	4.7
Peabody	300	50	2,800	650	2,000	4,600	160	60	10,620	16.6
Revere	*	*	1,170	320	1,010	*	1,150	260	3,900	6.1
Rockport	100	50	900	80	400	2,700	120	380	4,740	7.4
Salem	*	*	1,200	400	1,600	1,200	780	1,090	6,270	9.8
Saugus	*	*	1,400	400	1,500	2,500	1,180	510	7,490	11.7
Stoneham	160	40	1,300	100	1,000	1,200	40	380	4,220	6.6
Swampscott	*	*	800	120	500	200	290	10	1,920	3.0
Wakefield	*	*	1,800	300	1,000	1,330	310	320	5,060	7.9
Winchester	*	*	1,900	100	1,000	400	440	190	4,030	6.3
Winthrop	*	*	520	50	620	*	30	770	1,980	3.1
Woburn	350	90	2,400	800	1,200	2,240	920	190	8,190	12.8
TOTAL	3,410	1,080	37,160	7,040	26,770	48,570	9,150	14,150	147,310	229.3
PERCENT	2.3	0.7	25.2	4.8	18.2	33.0	6.2	9.6	100.0	

Note: Totals may not add due to rounding *Less than 10 acres April 1971

PRESENT LAND USE ACREAGES (As of 1968)

Parker Study Area

TOWN	AGRICULTURE		URBAN			FOREST	OTHER	WATER	TOTAL AREA	
	Cropld.	Past.	Resident.	Com-Ind	Pub-Inst				Acres	Sq.Mi.
Georgetown	500	150	800	200	1,100	5,500	10	190	8,450	13.2
Groveland	300	50	800	250	500	3,500	360	260	6,020	9.4
Newbury	1,300	400	900	150	3,200	6,000	3,730	770	16,450	25.7
Newburyport	1,000	200	1,000	160	800	1,300	920	1,660	7,040	11.0
Rowley	600	100	600	150	600	6,200	3,590	960	12,800	20.0
TOTAL	3,700	900	4,100	910	6,200	22,500	8,610	3,840	50,760	79.3
PERCENT	7.3	1.8	8.1	1.8	12.2	44.3	16.9	7.6	100.0	

Note: Totals may not add due to rounding *Less than 10 acres April 1971

PRESENT LAND USE ACREAGES (As of 1968)

South Shore Study Area

TOWN	AGRICULTURE		URBAN			FOREST	OTHER	WATER	TOTAL AREA	
	Cropld.	Past.	Resident.	Com-Ind	Pub-Inst				Acres	Sq.Mi.
Braintree	150	40	2,300	580	2,000	3,580	50	510	9,220	14.4
Cohasset	100	10	1,580	120	2,200	2,000	200	450	6,660	10.4
Duxbury	500	150	1,700	330	1,000	9,200	2,030	1,410	16,320	25.5
Hanover	400	100	1,440	460	580	6,500	440	60	9,980	15.6
Hingham	600	150	2,130	560	4,250	6,000	450	2,690	16,830	26.3
Holbrook	90	10	950	300	360	2,680	220	60	4,670	7.3
Hull	*	*	780	50	520	150	100	3,520	5,120	8.0
Kingston	390	100	670	380	400	8,060	1,840	900	12,740	19.9
Marshfield	700	300	2,150	350	1,000	10,000	3,740	450	18,690	29.2
Norwell	400	100	1,300	310	1,100	9,400	770	130	13,500	21.1
Pembroke	400	200	1,500	320	700	10,200	500	1,220	15,040	23.5
Plymouth	2,000	500	2,730	1,750	2,120	49,200	3,200	5,380	66,880	104.5
Quincy	*	*	3,050	1,160	4,370	1,500	220	6,780	17,090	26.7
Randolph	100	10	1,720	250	1,650	2,500	40	320	6,590	10.3
Rockland	200	100	1,200	320	530	3,500	550	60	6,460	10.1
Scituate	400	100	2,650	200	1,260	5,800	410	1,340	12,160	19.0
Weymouth	700	140	850	380	790	10,100	860	380	14,210	22.2
TOTAL	7,130	2,010	28,700	7,820	24,830	140,370	15,620	25,660	252,160	394.0
PERCENT	2.8	0.8	11.3	3.1	9.9	55.7	6.2	10.2	100.0	

Note: Totals may not add due to rounding *Less than 10 acres April 1971

PRESENT LAND USE ACREAGES (As of 1968)

Sudbury Study Area

TOWN	AGRICULTURE		URBAN			FOREST	OTHER	WATER	TOTAL AREA	
	Cropld.	Past.	Resident.	Com-Ind	Pub-Inst				Acres	Sq.Mi.
Ashland	290	70	790	280	960	4,430	800	700	8,320	13.0
Framingham	700	180	4,000	750	3,000	5,700	1,480	1,090	16,900	26.4
Hopkinton	430	110	750	280	2,300	10,780	2,180	1,150	17,990	28.1
Marlborough	600	150	1,750	600	1,100	6,160	2,760	830	13,950	21.8
Sudbury	1,500	380	2,000	200	1,500	8,110	2,120	130	15,940	24.9
Southborough	1,040	380	700	270	530	5,040	870	1,090	9,920	15.5
Wayland	1,000	250	2,400	200	1,200	3,630	1,240	260	10,180	15.9
TOTAL	5,560	1,520	12,390	2,580	10,590	43,850	11,450	5,250	93,200	145.6
PERCENT	6.0	1.6	13.3	2.8	11.4	47.1	12.2	5.6	100.0	

Note: Totals may not add due to rounding *Less than 10 acres April 1971

PRESENT LAND USE ACREAGES (As of 1968)

Taunton Study Area

TOWN	AGRICULTURE		URBAN			FOREST	OTHER	WATER	TOTAL AREA	
	Cropld.	Past.	Resident.	Com-Ind	Pub-Inst				Acres	Sq.Mi.
Abington	500	200	1,200	250	1,140	2,500	480	190	6,460	10.1
Avon	70	10	500	130	470	1,450	60	190	2,880	4.5
Berkley	1,100	600	270	260	250	7,500	640	510	11,140	17.4
Bridgewater	2,200	500	1,300	400	1,950	10,000	1,190	580	18,110	28.3
Brockton	200	50	4,320	1,040	3,000	4,500	420	40	13,570	21.2
Dighton	1,000	900	450	440	400	9,550	1,470	260	14,460	22.6
E. Bridgewater	1,800	500	1,100	400	540	4,000	2,730	130	11,200	17.5
Easton	1,000	500	1,300	420	1,210	12,000	2,000	260	18,690	29.2
Foxborough	520	120	1,260	270	1,100	8,330	1,070	510	13,180	20.6
Freetown	950	500	510	550	320	17,660	1,530	1,220	23,230	36.3
Halifax	700	300	550	60	300	7,400	870	900	11,070	17.3
Hanson	500	200	1,050	220	510	6,300	840	380	10,050	15.7
Lakeville	1,300	550	740	160	550	14,370	1,150	4,100	22,910	35.8
Mansfield	300	580	730	270	370	9,450	1,250	170	13,120	20.5
Middleborough	3,200	1,500	1,250	780	1,000	33,420	3,270	1,660	46,080	72.0
Norton	520	610	650	360	410	13,400	2,030	770	18,750	29.3
Plympton	500	300	240	110	110	7,770	310	260	9,600	15.0
Raynham	800	700	710	340	560	8,530	1,420	180	13,250	20.7
Stoughton	440	110	1,850	600	950	5,560	730	130	10,370	16.2
Taunton	1,550	1,240	2,500	1,100	2,100	17,960	3,630	640	30,720	48.0
W. Bridgewater	1,000	500	720	370	580	4,500	2,290	20	9,980	15.6
Whitman	100	50	1,000	200	430	2,000	630	10	4,420	6.9
TOTAL	20,250	10,520	24,200	8,730	18,250	208,150	30,010	13,110	333,240	520.7
PERCENT	6.1	3.1	7.3	2.6	5.5	62.5	9.0	3.9	100.0	

Note: Totals may not add due to rounding *Less than 10 acres

April 1971

PRESENT LAND USE ACREAGES (As of 1968)

Thames Study Area

TOWN	AGRICULTURE		URBAN			FOREST	OTHER	WATER	TOTAL AREA	
	Cropld.	Past.	Resident.	Com-Ind	Pub-Inst				Acres	Sq.Mi.
Brimfield	410	140	400	30	200	16,430	4,770	340	22,720	35.5
Charlton	880	320	630	400	1,020	19,120	5,020	770	28,160	44.0
Dudley	660	240	800	200	600	7,110	3,890	580	14,080	22.0
Holland	20	*	390	20	70	6,910	640	400	8,450	13.2
Leicester	700	260	920	90	850	10,390	1,510	1,020	15,740	24.6
Oxford	680	240	930	190	800	11,510	2,670	450	17,470	27.3
Southbridge	220	80	780	440	560	9,360	1,040	640	13,120	20.5
Sturbridge	420	160	210	200	1,280	19,650	2,210	830	24,960	39.0
Wales	40	20	190	10	100	8,060	1,750	130	10,300	16.1
Webster	590	210	910	230	580	5,430	30	1,300	9,280	14.5
TOTAL	4,620	1,670	6,160	1,810	6,060	113,970	23,530	6,460	164,280	256.7
PERCENT	2.8	1.0	3.8	1.1	3.7	69.4	14.3	3.9	100.0	

Note: Totals may not add due to rounding *Less than 10 acres April 1971

PRESENT LAND USE ACREAGES (As of 1968)

Westfield Study Area

TOWN	AGRICULTURE		URBAN			FOREST	OTHER	WATER	TOTAL AREA	
	Cropld.	Past.	Resident.	Com-Ind	Pub-Inst				Acres	Sq.Mi.
Beckett	130	80	300	30	300	28,600	830	580	30,850	48.2
Blandford	490	180	270	90	730	29,280	1,600	1,660	34,300	53.6
Chester	600	200	370	90	300	20,100	1,600	670	23,940	37.4
Chesterfield	740	530	330	20	130	16,090	2,150	100	20,100	31.4
Cummington	870	550	390	10	270	10,930	1,760	10	14,780	23.1
Goshen	290	280	340	10	100	9,190	1,000	190	11,390	17.8
Huntington	160	200	500	70	240	13,410	1,480	1,220	17,280	27.0
Middlefield	160	470	120	10	150	12,870	1,570	70	15,420	24.1
Montgomery	550	180	260	10	190	8,350	10	110	9,660	15.1
Peru	80	50	120	*	100	16,050	370	60	16,830	26.3
Plainfield	930	250	250	10	110	10,370	1,550	100	13,570	21.2
Russell	60	20	220	70	270	9,780	830	270	11,520	18.0
Southwick	3,460	1,170	1,250	210	500	11,610	1,450	640	20,290	31.7
Westfield	3,200	1,060	3,120	1,050	2,920	16,980	1,210	540	30,080	47.0
West Springfield	420	140	2,450	630	1,400	4,350	1,320	490	11,200	17.5
Windsor	780	460	110	10	200	18,860	2,300	60	22,780	35.6
Worthington	1,080	500	340	10	170	15,510	2,920	10	20,540	32.1
TOTAL	14,000	6,320	10,740	2,330	8,080	252,330	23,950	6,780	324,530	507.1
PERCENT	4.3	1.9	3.3	0.7	2.5	77.8	7.4	2.1	100.0	

Note: Totals may not add due to rounding *Less than 10 acres April 1971

PRESENT LAND USE
(As of 1968)

SPECIFIC METHODOLOGY USED

FOR EACH

COUNTY

Listed below, by counties, is the specific methodology used to develop the Present Land Use, as of 1968, for that county:

BARNSTABLE COUNTY

Data sources used included the 1966 Conservation Needs Inventory; the University of Massachusetts Classification of Land Cover Types, Barnstable County, 1959; An Inventory of Ponds, Lakes and Reservoirs of Massachusetts, Barnstable County, 1969; A State-wide Highway Transportation Plan by Allison, Inc., 1969; the U.S. Department of Commerce, Area Measurement Report, 1967; Land Use Report from the Cape Cod Planning and Economic Development Commission; and USGS 7½ minute Quadrant Sheets.

Agricultural Land acreage was estimated for the entire county based on the 1966 Conservation Needs Inventory report. This acreage was adjusted by towns based on the proportion of the land classified "AL" and "CB" in the Classification of Land Cover Types Report for Barnstable County.

Urban Land uses were based on measurements supplied by the Cape Cod Planning and Economic Development Commission.

Forest Land was based on the 1966 Conservation Needs Inventory reports. The figures are a 10% reduction of the sum of forest land and "AF" land from the Classification of Land Cover Types Report for Barnstable County.

Other Land was determined as the difference between total acreages of each town and the sum of the computed categories.

Water surface acreages and Total acreages for each town were taken from the U.S. Department of Commerce Area Measurement Report. In some cases this total was adjusted upwards as the Inventory of Ponds, Lakes and Reservoirs of Massachusetts, Barnstable County indicated that there was more water than the Area Measurement Report stated.

BERKSHIRE COUNTY

Data sources used included the 1958 and 1966 Conservation Needs Inventory reports; the 1959 and 1964 Census of Agriculture Reports;

the Berkshire County Regional Planning Report by T.P.A. 1959; current land use maps being prepared by the Berkshire County Regional Planning Commission; the University of Massachusetts Classification of Land Cover Types for Berkshire County, 1959; A State-wide Highway Transportation Plan by Allison Inc., 1969; and the U.S. Department of Commerce, Area Measurement Report, 1967.

Agricultural Land acreage was estimated for the entire county from the Conservation Needs Inventory and Agricultural Census Reports. This acreage was prorated by towns based on the proportion of land classified as "AL" in the Classification of Land Cover Types Report.

Urban Land acreages, except the Public-Institutional category, were based on the Berkshire County Regional Planning Report and updated based on a map prepared by the Berkshire County Regional Planning Commission showing development that has occurred between 1960 and 1970. The percent of increase was estimated for each town and this increase was applied to the residential, commercial, and industrial acreages as shown in the 1959 report.

Public-Institutional acreages were determined by reviewing town maps prepared by the Berkshire Regional Planning Commission that have delineated schools, cemeteries, airports, parks, etc. Acreages of roads included in this category were derived based on mileage of state and local roads within each town. Road mileages were taken from the State-Wide Highway Transportation Plan. Average road widths, including road surface and berms used to compute road acreage, were 70 feet for state roads and 45 feet for local roads. These acreages were included in the total for public and institutional uses.

Forest Land was based primarily on the 1958 and 1966 Conservation Needs Inventory reports.

Other Land was determined as the difference between the total acreages of each town and the sum of the computed categories.

Water surface acreages and Total acreages for each town were taken from the Area Measurement Report. Water surface acreages in towns with less than 0.1 sq. mi. (64 ac.) of water listed in the Area Measurement Report were taken from USGS 7½' Quadrangle sheets.

BRISTOL COUNTY

Data sources used included the 1966 Conservation Needs Inventory report, the 1964 Census of Agriculture Report, Land Use Inventory of Southeastern Massachusetts, Transportation Study, by Aero Service Corporation, 1964-1965, the University of Massachusetts Classification of Land Cover Types for Bristol County 1959, Comprehensive Land Use Inventory Report, by Vogt, Ivers and Associates, and Area Measurements Report by U.S. Department of Commerce, 1967.

Basic data from the Southeastern Massachusetts Transportation Study were furnished on magnetic computer tape by the Massachusetts Department of Public Works. These data, consisting of some 99 individual land use codes as defined in the Standard Industrial Classification Index, were sorted by a computer into the basic categories used in this study. These basic categories were further sub-divided or adjusted as follows:

Agricultural Land was allocated to cropland and pasture based on the 1964 Census of Agriculture and the 1966 Conservation Needs Inventory report.

Urban Land uses were computed directly from the data on magnetic tape. These included Residential, Commercial-Industrial, and Public-Institutional.

Forest Land consisted of both public and private holdings and was taken directly from the data on the magnetic tape.

Other Land was determined as the difference between the total acreages of each town and the sum of the computed categories.

Water surface acreages and Total acreages for each town were taken from the Area Measurement Report by the U.S. Department of Commerce. Water surface acreage in towns with less than 0.1 sq. mi. (64 ac.) of water listed in the Area Measurement Report was taken from USGS 7½' Quadrangle sheets.

DUKES COUNTY

Data sources used included the University of Massachusetts Classification of Land Cover Types for Dukes County 1959; Town of Edgartown Conservation and Recreation Plan with Open Space Inventory and Analysis by the Edgartown Conservation Commission, February 1970; A State-wide Highway Transportation Plan by Allison, Inc., 1969; Area Measurement Report by U.S. Department of Commerce, 1967; Dukes County Comprehensive Plan Preliminary Reports Nos. 1-5, by Metcalf and Eddy, January - October 1970; USGS 7½' Quadrangle Sheets; and an in-depth field reconnaissance of the county by Soil Conservation Service personnel.

Agricultural Land acreage was estimated from the USGS Quadrangle sheets after observing all areas of the county and locating farms on the Quadrangle Sheets. The Soil Conservation Service Soil Scientist responsible for Dukes County and the Middleboro District Conservationist assisted in locating active agricultural lands.

Urban Land uses were derived from population and land use estimates in the Dukes County Comprehensive Plan Preliminary Reports. Also The State-wide Highway Transportation Plan supplied data on a portion of the Public-Institutional land. The remaining Public-Institutional land was estimated from the Quadrangle sheets and included schools, cemeteries, town parks, public beaches, airports, etc.

Forest Land estimates were based on the Classification of Land Cover Types for Dukes County. Adjustments to update these figures were made for each town based on the field reconnaissance of the county.

Other Land was determined as the difference between total acreage of each town and the sum of the computed categories. This includes open land not used specifically for any purpose and in the case of Dukes County includes a substantial quantity of brush covered coastal sands.

Water surface acreages and Total acreages for each town were taken from the Area Measurement Report.

ESSEX COUNTY

Data sources used included the Comprehensive Land Use Inventory prepared by Vogt, Ivers and Associates, the University of Massachusetts Classification of Land Cover Types for Essex County, 1959, and Area Measurements Report by U.S. Department of Commerce 1967, the 1964 Census of Agriculture and 1966 Conservation Needs Inventory reports.

Agriculture Land acreage was estimated for the entire county from the Conservation Needs Inventory and 1964 Census of Agriculture reports. This acreage was prorated by towns based on the proportion of the land classified as "AL" in the Classification of Land Cover Types.

Urban Land uses were based on Table 3 of the Comprehensive Land Use Inventory Report.

Residential Land acreages were taken directly from the above report.

Commercial - Industrial land use is the sum of categories 2, 4, and 5, (commercial, manufacturing and extraction) of the above report.

Public - Institutional lands were determined by combining categories 3 and 8, Social Service and Recreation, and Streets and Alleys.

Forest Land was based primarily on the 1966 Conservation Needs Inventory reports and the Classification of Land Cover Types Report.

Other Land was determined as the difference between the total acreage of each town and the sum of the computed categories.

Water surface acreages and Total acreages for each town were taken from the Area Measurement Report. Water Surface acreage in towns with less than 0.1 sq. mi. (64 ac.) of water as listed in the Area Measurement Report was taken from USGS 7½' Quadrangle Sheets.

FRANKLIN COUNTY

Data sources used included the 1966 Conservation Needs Inventory report, the Classification of Land Cover Types for Franklin County 1959;

A State-wide Highway Transportation Plan by Allison Inc., 1969; Area Measurement Report by U.S. Department of Commerce, 1967; Planning for Franklin County: Technical Report, 1969 by Philip B. Herr and Associates, Planning Consultants, and USGS 7½' Quadrangle Sheets.

Agricultural Land acreage was estimated for the entire county from the Conservation Needs Inventory report. This acreage was adjusted by towns based on the amount of cultivated and other open land from Tables in Appendix B of Planning for Franklin County: Technical Report 1969.

Urban Land uses were based on measurements from tables in Appendix B of Planning for Franklin County: Technical Report 1969.

Forest Land was based on the 1966 Conservation Needs Inventory reports. This was adjusted for each town from tables of Appendix B Planning for Franklin County: Technical Report 1969.

Other Land was determined as the differences between total acreages of each town and the sum of the computed categories.

Water surface acreages and Total acreages for each town were taken from the Area Measurement Report. If this report indicated no surface water from a town, USGS 7½' Quadrangle Sheets were planimetered to determine the amount of water acreage.

HAMPDEN COUNTY

Data sources used included the 1966 and 1958 Conservation Needs Inventory reports, the 1959 and 1964 Census of Agriculture Reports, the University of Massachusetts Classification of Land Cover Types for Hampden County 1959, A State-wide Highway Transportation Plan by Allison, Inc., 1969, Area Measurement Report by U.S. Department of Commerce, 1967, and Land Use Inventory 1965 prepared by Lower Pioneer Valley Regional Planning Commission.

Agricultural Land acreage was estimated for the entire county from the Conservation Needs Inventory and Census of Agriculture Reports. This acreage was then prorated for each town based on the amount of "AL" land in the Classification of Land Cover Types. Acreages were adjusted by a factor to reflect population growth projected to 1968.

Urban Land Uses were based on the figures from Table 1 of the Land Use Inventory 1965. A percentage increase for each town was calculated by projecting the population growth figure to 1968 for each town. The towns not included in the original study have been surveyed recently and these figures were used directly. For all towns the consolidation of commercial plus industrial plus 5% of transportation and 10% of public utilities from the Land Use Inventory, 1965 report was considered to be the Commercial-Industrial segment of this table. Residential was

the residential figures from Table 1 with appropriate adjustment to 1968. The Public-Institutional acreage was the remaining area in transportation, public utilities and public buildings from Table 1 of the Land Use Inventory, 1965 report.

Forest Land was based primarily on the 1958 and 1966 Conservation Needs Inventory reports.

Other Land was determined as the difference between total acreages of each town and the sum of the computed categories.

Water surface acreages were taken directly from Table 1 of the Land Use Inventory 1965 report.

Total Land was taken from Area Measurement Reports.

HAMPSHIRE COUNTY

Data sources used included the 1966 and 1958 Conservation Needs Inventory reports, the 1959 and 1964 Census of Agriculture Reports, the University of Massachusetts Classification of Land Cover Types for Hampden County 1959, A State-wide Highway Transportation Plan by Allison, Inc., 1969, Area Measurement Report by U.S. Department of Commerce, 1967, and Land Use Inventory 1965 prepared by Lower Pioneer Valley Regional Planning Commission.

Agricultural Land acreage was estimated for the entire county from the Conservation Needs Inventory and Agricultural Census Reports. This acreage was then prorated for each town based on the amount of "AL" land in the Classification of Land Cover Types. Acreages were adjusted by a factor to reflect population growth projected to 1968.

Urban Land uses were based on the figures from Table 1 of the Land Use Inventory 1965 Report. A percentage increase for each town was calculated by projecting the population growth figure to 1968 for each town. The towns not included in the original study have been surveyed recently and these figures were used directly. For all towns the consolidation of commercial plus industrial plus 5% of transportation and 10% of public utilities from the Land Use Inventory 1965 report was considered to be the Commercial-Industrial segment. Residential was the residential figures from Table 1 with appropriate adjustment to 1968. The Public-Institutional acreage was the remaining area in transportation, public utilities and public buildings from Table 1 of the Land Use Inventory 1965 report.

Forest Land was based primarily on the 1958 and 1966 Conservation Needs Inventory reports.

Other Land was determined as the difference between total acreages of each town and the sum of the computed categories.

Water surface acreages were taken directly from Table 1 of the Land Use Inventory 1965 report.

NANTUCKET COUNTY

Data sources used included An Inventory and Interpretation Selected Resources of the Island of Nantucket, a cooperative study by the Town of Nantucket, the Massachusetts Department of Natural Resources, and the College of Agriculture, Cooperative Extension Service, University of Massachusetts, Amherst; A Statewide Highway Transportation Plan by Allison Inc. 1969; and Area Measurement Report by U.S. Department of Commerce, 1967.

All land use categories except Other were based on acreages found in the table "Area of General Vegetation Types" in the publication An Inventory and Interpretation Selected Resources of the Island of Nantucket.

Other Land was determined as the difference between total acreage and the sum of the computed categories.

Water surface acreage and Total acreage for the county were taken from Area Measurements Report.

MIDDLESEX COUNTY

Data sources used included the Comprehensive Land Use Inventory prepared by Vogt, Ivers and Associates, the University of Massachusetts Classification of Land Cover Types for Middlesex County, 1959, and Area Measurement Report by U.S. Department of Commerce 1967, the 1964 Census of Agriculture and 1966 Conservation Needs Inventory reports.

Agricultural Land acreage was estimated for the entire county from the Conservation Needs Inventory and Census of Agriculture reports. This acreage was prorated by towns based on the proportion of the land classified as "AL" in the classification of Land Cover Types Report.

Urban Land uses were based on Table 3 of the Comprehensive Land Use Inventory

Residential Land acreages were taken directly from the above report.

Commercial - Industrial land use is the sum of categories 2, 4, and 5 (commercial, manufacturing and extraction) of the above report.

Public-Institutional lands were determined by combining categories 3 and 8, Social Service and Recreation, and Streets and Alleys.

Forest Land was based primarily on the 1966 Conservation Needs Inventory reports and the Classification of Land Cover Types Reports.

Other Land was determined as the difference between the total acreage of each town and the sum of the computed categories.

Water surface acreages and Total acreages for each town were taken from the Area Measurement Report. Water Surface acreage in towns with less than 0.1 sq. mi. (64 ac.) of water as listed in the Area Measurement Report were taken from USGS 7½' Quadrangle Sheets.

NORFOLK COUNTY

Data sources used included the Comprehensive Land Use Inventory prepared by Vogt, Ivers and Associates, the University of Massachusetts Classification of Land Cover Types for Norfolk County, 1959, and Area Measurement Report by U.S. Department of Commerce, 1962, the 1964 Census of Agriculture and 1966 Conservation Needs Inventory reports.

Agricultural Land acreage was estimated for the entire county from the Conservation Needs Inventory and Census of Agriculture reports. This acreage was prorated by towns based on the proportion of the land classified as "AL" in the Classification of Land Cover Types Report.

Urban Land uses were based on Table 3 of the Comprehensive Land Use Inventory Report.

Residential Land acreages were taken directly from the above report.

Commercial-Industrial land use is the sum of categories 2, 4 and 5, (commercial, manufacturing and extraction) of the above report.

Public-Institutional lands were determined by combining categories 3 and 8, Social Service and Recreation, and Streets and Alleys.

Forest Land was based primarily on the 1966 Conservation Needs Inventory reports and the Classification of Land Cover Types Report.

Other Land was determined as the difference between the total acreage of each town and the sum of the computed categories.

Water surface acreages and Total acreages for each town were taken from the Area Measurement Report. Water Surface acreage in towns with less than 0.1 sq. mi. (64 ac.) of water as listed in the Area Measurement Report was taken from USGS 7½' Quadrangle Sheets.

PLYMOUTH COUNTY

Data sources used included the 1966 Conservation Needs Inventory report, the 1964 Census of Agriculture Report, Land Use Inventory of Southeastern Massachusetts Transportation Study, by Aero Service Corporation, 1964-1965, the University of Massachusetts Classification of Land Cover Types for Plymouth County, 1959, Comprehensive Land Use

Inventory Report, by Vogt, Ivers and Associates, and Area Measurement Report by U.S. Department of Commerce, 1967.

Basic data from the Southeastern Massachusetts Transportation Study were furnished on magnetic tape by the Massachusetts Department of Public Works. These data, consisting of some 99 individual land use codes as defined in the Standard Industrial Classification Index, were sorted by a computer into the basic categories used in this study. These basic categories were further sub-divided or adjusted as follows:

Agricultural Land was allocated to cropland and pasture based on the 1964 Census of Agriculture and the 1966 Conservation Needs Inventory report.

Urban Land uses were taken directly from the data on magnetic tape. These included Residential, Commercial-Industrial, and Public-Institutional.

Forest Land consisted of both public and private holdings and was taken directly from the Transportation Study data.

Other Land was determined as the difference between the total acreages of each town and the sum of the computed categories.

Water surface acreages and Total acreages for each town were taken from the Area Measurement Report. Water surface acreage in towns with less than 0.1 sq. mi. (64 ac.) of water listed in the Area Measurement Report was taken from USGS 7½' Quadrangle Sheets.

SUFFOLK COUNTY

Data sources used included the Comprehensive Land Use Inventory prepared by Vogt, Ivers and Associates, the University of Massachusetts Classification of Land Cover Types for Suffolk County, 1959, and Area Measurement Report by U.S. Department of Commerce 1962, the 1964 Census of Agriculture and 1966 Conservation Needs Inventory reports.

Agricultural Land acreage was estimated for the entire county from the Conservation Needs Inventory and Census of Agriculture report. This acreage was prorated by towns based on the proportion of the land classified as "AL" in the Classification of Land Cover Types Report.

Urban Land uses were based on Table 3 of the Comprehensive Land Use Inventory Report.

Residential land acreages were taken directly from the above report.

Commercial - Industrial land use is the sum of categories 2, 4 and 5, (commercial, manufacturing and extraction) of the above report.

Public-Institutional lands were determined by combining categories 3 and 8, Social Service and Recreation, and Streets and Alleys.

Forest Land was based primarily on the 1966 Conservation Needs Inventory reports and the Classification of Land Cover Types Report.

Other Land was determined as the difference between the total acreage of each town and the sum of the computed categories.

Water surface acreages and Total acreages for each town were taken from the Area Measurement Report. Water Surface acreage in towns with less than 0.1 sq. mi. (64 ac.) of water, as listed in the Area Measurement Report, was taken from USGS 7½' Quadrangle Sheets.

WORCESTER COUNTY

Data sources used included the 1966 Conservation Needs Inventory report; the University of Massachusetts Classification of Land Cover Types for Worcester County, 1959; Inventory of Physical Conditions for the Central Massachusetts Regional Planning District, 1967; Area Measurement Report by U.S. Department of Commerce, 1967; and USGS 7½' Quadrangle Sheets. For towns not included in the Central Massachusetts Regional Planning District, data was supplied by the local office of the Soil Conservation Service.

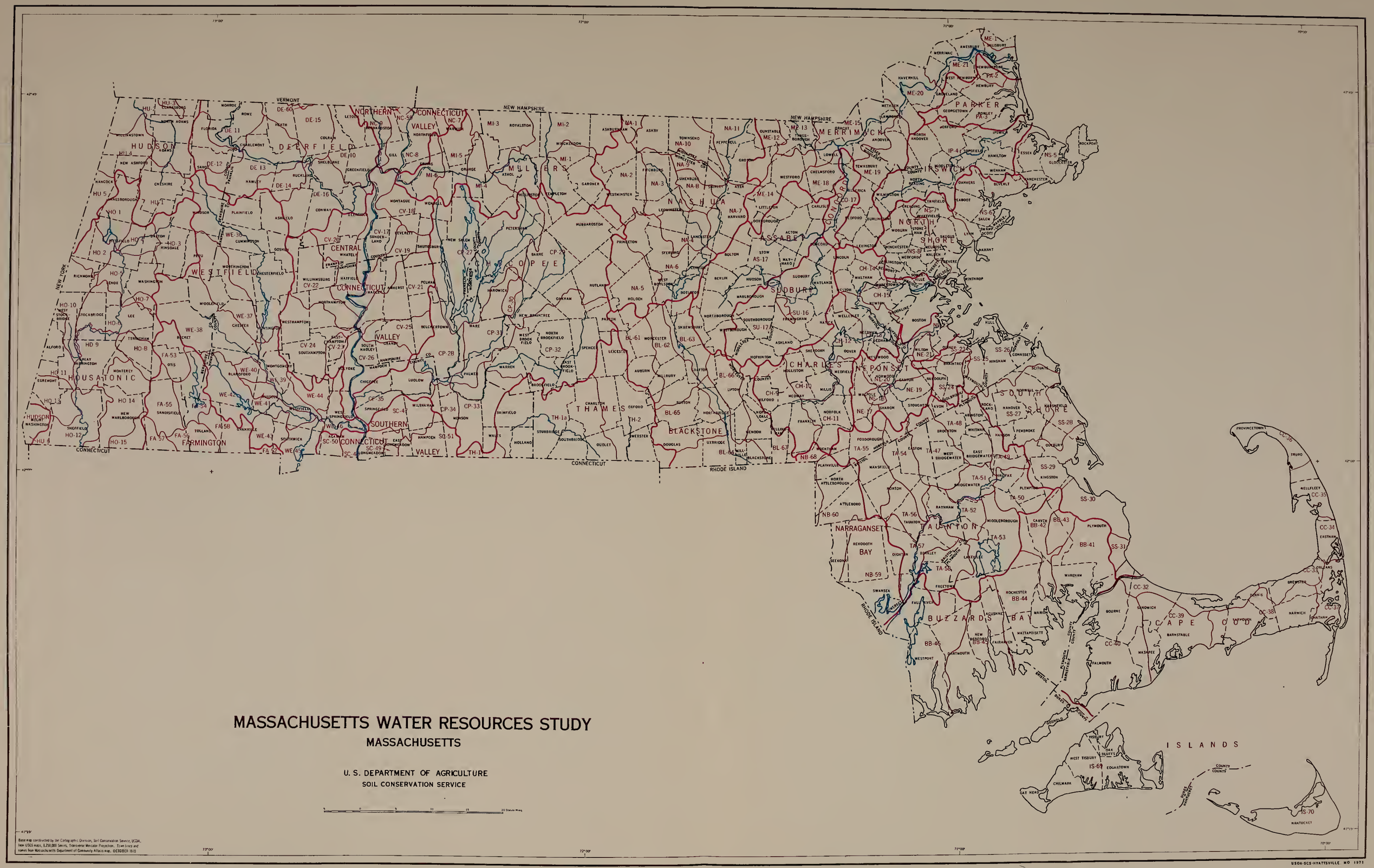
Agricultural Land acreage was estimated for the entire county from the Conservation Needs Inventory report. This acreage was adjusted by towns based on the proportion of the land classified "AL" in the Classification of Land Cover Types Report, and the amount of agricultural land and open space land from Appendix A of Inventory of Physical Conditions.

Urban Land uses were based on measurements taken from the Appendix A of Inventory of Physical Conditions for the Central Massachusetts Regional Planning District.

Forest Land was based on the 1966 Conservation Needs Inventory report. The figures are adjusted for each town based on the amount of forest land in the Classification of Land Cover Types for Worcester County.

Other Land was determined as the differences between the total acreages of each town and the sum of the computed categories.

Water surface acreage and Total acreages for each town were taken from the Area Measurement Report. Water surface acreage in towns with less than 0.1 sq. mi. (64 ac.) of water, as listed in the Area Measurement Report, was taken from USGS 7½' Quadrangle Sheets.



Base map contributed by the Cartographic Division, Soil Conservation Service, USDA, from USGS maps, 1:250,000 Series, Transverse Mercator Projection. Town lines and names from Massachusetts Department of Community Affairs map, OCTOBER 1970

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